ADMINISTRATION REPORT

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PUBLIC WORKS DEPARTMENT,

BOMBAY PRESIDENCY.

FOR THE YEAR

1872-73.

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ACCOUNTS.

1. Appended to this Report will be found detailed Statements showing the grant and outlay on the various main heads and sub-heads of the Budget. As the comparison of the outlay with the grants, as per budget orders, is merely useful for the purposes of the Government of India, but does not serve to show how the outlay incurred has tallied with the means at the disposal of Government, additional tables have been furnished at pages 31, 34, 36, 38, and 40 showing net results. The figures in the column showing the amount available on the 31st March 1873, have been arrived at by distributing the figures contained in suspense heads, and by adding such items as adjustment of expenditure on Port Trust and on Local Funds in past years, which, though not regarded by the Government of India as an addition to the budgets grant, have been permitted by them to be adjusted in excess of the grant: the difference of treatment is a mere technicality in Imperial accounts, but it tends to obscure the results of the year's operations. Exclusive of Establishment and Contribution works, the total amount available was 111 lakhs, and the total outlay 94½ lakhs, showing a lapse of 16½ lakhs, of which 2 lakhs is Imperial, Ordinary, 6 lakhs Imperial, Agricultural, 4½ lakhs Provincial, and 4 lakhs Local.

2. *Imperial, Ordinary.*—Out of the lapse of 2 lakhs on works on this head, Rs. 40,000 was on Civil Buildings, chiefly on the Post Office stables at Bombay and the Telegraph Office at Bhosawul; Rs. 13,000 was on Miscellaneous Public Improvements, chiefly on the Harbour Works, Kurrachee, and the remainder 1½ lakhs was on the head Military, of which the chief savings are for Barracks for a battery of Horse Artillery at Ahmednuggur, Rs. 18,000; additional Barrack accommodation for Infantry at Belgaum, Rs. 7,000; new Barracks, Aboo, Rs. 12,000; Gymnasium at Poona, Rs. 7,000; Artillery Barracks, Front Bay, Aden, Rs. 7,000; Steam Bakery, Aden, Rs. 3,000; works in Deolalee Camp, Rs. 8,000; credits to suspended works for transfer of materials, Rs. 21,000; saving under minor works, Rs. 10,000. There is an excess of nearly half a lakh under the head Establishment, due to short outlay on Irrigation and on Local Funds, causing those two Services to be debited with less than the share contemplated for Establishment. The net amount lapsed is about 1½ lakhs, as per page 31.

3. *Imperial, Agricultural.*—Of the saving of 6 lakhs on Agricultural works, 2½ lakhs are on Extraordinary, and a similar amount on Ordinary, ½ a lakh on Repairs, and ½ a lakh on Tools and Plant. Partly as a result of this short outlay, and partly on account of excess provision under this head, there has been a saving of 1½ lakhs on Establishment. The net amount lapsed is nearly 7½ lakhs, as per page 34. The Agricultural works on which there are the principal savings are:—

Extraordinary.	Rs.	*Ordinary.*	Rs.
Hathmati Canal	... 98,000	Desert Canal ...	2,00,000
Ekruk Tank	... 34,000	Thur „ ...	29,000
Muta Canal	... 27,000	Jullee Bund ...	11,000
Reservoir on the Mukti Kalee	... 31,000	Regulator and distributing sluices to Nusseerwah ...	5,000
Improvements of Bigari Canal	... 37,000	Improvements to Fulali..	4,000
Mitrow Canal	... 26,000		
Sukkhar Canal	... 32,000		
	2,75,000		2,49,000

4. *Provincial.*—The lapse of 4½ lakhs, in consequence of short outlay on works, is 3½ lakhs on Civil Buildings, Rs. 2,92,580 of which is for the Salt Buildings in connection with Patri Railway, ½ a lakh on Communications, ½ a lakh on Repairs, and ½ a lakh may be distributed over all the heads for decrease in stock and petty savings. There has been an excess of about ½ a lakh under the head Establishment for the reason given for a similar excess under the head Imperial, Ordinary. The net amount lapsed is therefore about 4 lakhs as per page 36.

The chief savings on the head Communications have been on the following works :—

Railway Feeders, Ahmedabad	Rs. 21,500
Hedgood Nulla Bridge, Belgaum	5,000
Road from Bilimora Railway Station to Chiklee ...	10,000
Bridge over the Gootoor Nulla, Belgaum ...	5,000
Shunwarcope Bridge, Dharwar	7,000
Bridges and drains on the Chiploon and Rutnagherry Road.	4,000

5. *Local.*—Of the saving of 4 lakhs, 1¾ lakhs are under the head (A) Civil Buildings, 1 lakh under (B) Communications, rather more than ¼ lakh under Miscellaneous Public Improvements, ½ a lakh under Repairs, and ½ a lakh under grant-in-aid to Provincial funds for Original Works and Establishment. The short outlay has resulted in a saving in Establishment to the extent of nearly a lakh of Rupees.

The principal savings are :—

(*a*)	Elphinstone High School	Rs. 61,000
	Training College, Dharwar	„ 20,000
	School-houses, Surat and Broach Collectorate	„ 8,000
	„ Sattara „ ...	„ 10,000
	„ Poona „ ...	„ 3,000
	„ Belgaum „ ...	„ 16,000
	Dispensary, Belgaum Collectorate	„ 4,000
	„ Halole, Kaira	„ 5,860
(*b*)	Improving the road from Shirwul *via* Waee to Panchgunny	„ 6,000
	Road between Sowda and Fyzpur	„ 10,000
	Bridge over the Piniari at Dara	„ 5,000
	Bridges and drains on the Kurrar and Tasgaum Road.	„ 8,000
	Road from Broach to Ahmode	„ 6,000
	Bridges and drains on the Godra and Pali road.	„ 11,000
	Dohud and Godra road	„ 23,700

6. *Contributions.*—The expenditure has been 2½ lakhs, the greater part of which has been included under Provincial Public Buildings, the principal of which are the University Senate Hall, Rs. 21,585, and Library with Clock Tower, Rs. 64,835, Native General Hospital Rs. 49,011, New Sailors' Home, Rs. 64,493.

7. Leaving out those amounts which are merely adjustments of former years, and omitting Port Trust works, the total expenditure inclusive of Establishments of the year has been as follows :—

Imperial	Rs. 60,10,594
Provincial	30,38,355
Local	17,09,128
Contributions	2,67,277
	1,10,25,354

8. The total outlay on Establishment was estimated at Rs. 20,71,167 ; it has actually been Rs. 20,83,839 ; the percentage on outlay on works is therefore 23·31, and the percentage on gross outlay is 18·90.

I.—MILITARY.

I.—FORTIFICATIONS.

1. BOMBAY.—The permanent Harbour Defence Works remain in the same state as described in the report of last year; that is to say, all active work is suspended pending the settlement of the question of the best means of defence to be adopted.

2. HYDRABAD.—*Fort.* The revetments of the Fort being in a state of decay, portions have been renewed with brick and lime masonry. The expenditure has amounted to Rs. 7,000.

II.—CANTONMENTS.

3. BOMBAY.—Accommodation has been provided at Colaba for forty Dhobies: four Ghauts have been constructed, and four Sheds in which to boil water. The estimated cost is Rs. 2,976, of which Rs. 2,471 have been spent.

4. POONA.—The tank in the vicinity of St. Mary's Church has been cleared out at a cost of Rs. 989.

5. NASSICK.—*Waldevi Bridge.* The Waldevi Bridge has been completed. It consists of five segmental arches, span of 40 feet, on coursed masonry abutments and piers. Total expenditure, Rs. 32,927.

Road from Deolalee Railway Station to the Camp.

6. Metal has been collected and stacked on the side of the road, in order that it may be spread, rolled, and consolidated during the rains of 1873. Estimate, Rs. 5,347; expended, Rs. 1,800.

Road and Drains in the new Bazaar in Camp Deolalee.

7. Earth embankments have been nearly completed. Drains will be of rubble stone and lime masonry. Estimate, Rs. 10,600, of which Rs. 1,444 have been expended.

Quarries in Camp Deolalee.

8. These quarries, which lie to the west of the Camp, on the slope of the Temple hill, have been filled up so as to form a uniform slope with the original surface of the ground. The work has been completed at a cost of Rs. 3,969.

III.—ACCOMMODATION FOR TROOPS.

Plunge Bath.

9. BOMBAY.—A salt water Plunge Bath, the interior dimensions of which are 50 feet by 30 feet, with a maximum depth of 6 feet at one end, and 4 feet at the other, has been constructed for the troops at Colaba, at a cost of Rs. 2,079.

Paved Bathing-places in the Native Infantry Pendalls.

10. The work of constructing paved bathing-places in each of the sepoys' rooms in the Pendalls of the 21st Regiment N. I., stationed at Bombay, has been commenced. They will be connected by open gutters with the central street drains running through the lines. Estimated cost, Rs. 12,769. Expenditure in the year, Rs. 2,993.

Upper Stories to the Artillery Barracks in Front Bay.

11. ADEN.—One barrack has been completed; the other building is well in hand. The total outlay on both barracks, up to the close of the year, has been Rs. 60,168, against an estimate of Rs. 97,758.

Officers' Quarters at the Isthmus.

12. The estimate provides for two blocks of quarters, each of which will accommodate eight officers; but as yet only one block has been erected on the Johar Range, behind the Isthmus. The main building is of stone, coursed and neatly dressed; it is double-storied, and has deep verandahs in front and rear. Being built on a commanding site, at an elevation of 100 feet above high water mark, the quarters appear to much advantage, and they may be regarded, for the present, as the best finished buildings in Aden. The total outlay on the work has been Rs. 90,638, against an estimate of Rs. 1,81,180.

Pucka Roofs to the Military Buildings.

13. The work of substituting pucka roofs, for the jowlee formerly used, on the Military buildings at Aden, has progressed favorably. The greater portion of the work, estimated for Rs. 1,79,248, has been carried out, the result being a considerable improvement to the appearance and safety of the buildings. The total expenditure has been Rs. 1,03,641.

Paving the floors of certain Buildings.

14. The floors of the Library, Recreation-room, and School-room of the British Infantry Regiment in Front Bay, have been paved at a cost of Rs. 2,119.

Cooking Sheds for the Native Infantry.

15. This work was ordered in view to prevent damage to arms and accoutrements, which resulted from cooking within the pendalls. The new sheds are substantially built, and afford ample accommodation. Expenditure, Rs. 7,114.

Infantry Barracks.

16. BELGAUM.—The state of progress of the seven upper-storied Barracks under construction at Belgaum, for the use of the Infantry, is as follows:—Two Barracks completed; two nearly completed; the masonry work of one finished; that of another nearly finished; the first floor of the seventh in progress; nearly all the subsidiary buildings have been completed. Estimate, Rs. 7,82,250; expenditure, Rs. 5,15,239.

Artillery Barracks.

17. Two of the three Barracks have been completed, and the third will be soon put out of hand. The Guard-room and Cells, Fives Court, &c., have been completed. The Harness-rooms and Artificers' Shop have been finished up to their roofs. The Stables have been commenced. Estimate, Rs. 4,59,698; spent, Rs. 3,99,186.

Wells.

18. A Well for the Infantry, to cost Rs. 8,024, has been in progress, and was on the point of completion at the close of the year; another for the Artillery has been finished, at a cost of Rs 4,414.

Infantry Barrack.

19. SATTARA.—A new Barrack has been constructed, to replace the temporary building which was burnt down in April 1872. The work has cost Rs. 32,247.

Canteen.

20. This building is nearly finished. Estimate Rs. 9,833; expenditure up to close of the year, Rs. 9,140.

Cells.

21. The detachment of European troops has been provided with three Cells, at a cost of Rs. 7,386.

Native Infantry Lines.

22. These old lines have been removed, and rebuilt, some on the old, and some on new foundations. Cost, Rs. 11,341.

Gymnasium.

23. POONA.—This structure, with its subsidiary buildings, has been completed. Estimate, Rs. 46,442; but, owing to a dispute among the partners of the Firm which carried out the work by contract, the payments on account of the work up to the close of the year amounted to only Rs. 35,294.

Cavalry Quater Guard.

24. The Quarter Guard, and Store-room, two Solitary Cells, and Magazine, which had been in progress in the year previous, have been completed in this year, at a total cost of Rs. 9,164.

Soldiers' Gardens.

25. With a view to the utilization of the waste water from the Barrack lavatories, open paved drains have been constructed at Ghorepoorie, and at Wanowrie, to conduct the water to plots of ground which have been fenced in as Soldiers' Gardens. Two experimental gardens of this sort having succeeded very well, twelve more gardens were laid out in the year. The estimate of the whole project is Rs. 9,596; and the expenditure in the past year has been Rs. 3,261.

26. POORUNDHUR.—Improved Cooking Ranges and Chimneys have been provided to all the Cook-rooms of the Barracks at Poorundhur, at a cost of Rs. 2,439. Also a Dead-house, Rs. 956; and various other items.

Harness-rooms and Workshops.

27. KIRKEE.—Three Harness-rooms, and one Workshop have been completed at Kirkee, for the Royal Artillery. One of the Harness-rooms is for a battery of Horse Artillery, and consists of three rooms, 40 by 20 feet each, with two store-rooms 20 by 12 feet each, with an open verandah of 10 feet in width on its two sides. The two other Harness-rooms are designed for two Field Batteries, and differ from the first only in the dimensions of the main room, which is 25 feet, instead of 40 feet long. The Workshop comprises two rooms, each 30 by 20 feet, with a 10 feet open verandah at either end. The work has been completed at an outlay of Rs. 53,548.

Royal Artillery Stables.

28. Twelve of these new Stables have been fitted up with iron mangers and hay-racks, as an experimental measure; cost Rs. 2,066.

29. SHOLAPOOR.—The Native Infantry Regiment at this place, has been supplied with a Quarter Guard and Lock-up, at a cost of Rs. 4,199; and a School-house at a cost of Rs. 2,999.

30. AHMEDNUGGUR.—The third Barrack, and the few subsidiary buildings which remained to be finished, have been completed in the year. The total expenditure on the three barracks, with their auxiliary buildings and out-offices, has been Rs. 6,10,049, out of an estimate of Rs. 6,79,774.

Artillery Barracks, Ahmednuggur.

31. Ridge ventilation has been provided for the main ward of this building; and the floor has been paved with stone. The surgery and dispensary have been removed from the south to the east side, thus leaving the south verandah open. A dead-house has been constructed. The work has been completed at a cost of Rs. 1,572.

Native Infantry Hospital.

32. NASSICK.—Eleven more Barracks have been paved in the year. Estimated cost, Rs. 1,51,958; expenditure up to date, Rs. 1,23,846.

Paving the Floors of the Deolalee Barracks.

33. These Quarters are in three blocks. Their superstructure is nearly finished, and the roof work, doors and windows, and other minor items, are in rapid progress. Estimate, Rs. 27,877; expenditure up to date, Rs. 16,236.

Officers' Quarters at Deolalee.

34. A block of Offices for the Staff at Deolalee has been commenced. Estimate, Rs. 20,992; expended, Rs. 5,000.

Staff Offices at Deolalee.

35. This building has been just commenced; the foundations only have been excavated, and materials collected. Estimate, Rs. 28,288; expended, Rs. 5,000.

Canteen, Deolalee.

36. The accommodation to be provided is a Library, a Serjeants' Mess, and a Coffee Shop, with a verandah 11 feet wide all round. The side verandahs are to be partitioned off to form five rooms for stores, &c. Estimate, Rs. 23,988; expended, Rs. 5,000.

Library, &c., Deolalee.

37. A new Hospital is in progress. The centre portion of the building will consist of a surgery, a dayroom, Apothecaries' quarters, &c.; the right wing will accommodate eighteen patients, and the left twelve patients. The work of the main building has been advanced as far as the plinth, and the superstructure of the out-offices was approaching completion at the close of the year. The estimate is Rs. 1,00,000, and the expenditure up to date has been Rs. 31,974.

Hospital, Deolalee.

38. BARODA.—A Rifle Range has been constructed for the Native Infantry stationed at Baroda, at a cost of Rs. 2,099.

39. AHMEDABAD.—Solitary Cells and Lavatories for the Royal Artillery in Camp have been commenced; about two-thirds of the superstructure has been completed, and nearly all the woodwork has been prepared. Estimated cost, Rs. 9,746; expended, Rs. 4,960.

Solitary Cells and Lavatories.

40. DEESA.—A tiled shed has been constructed, to be used as a gymnasium, at a cost of Rs. 3,040; and gymnastic apparatus has been supplied at a cost of Rs. 3,111.

Gymnasium.

41. The hospital has been improved by sundry additions and alterations, costing Rs. 6,481.

Native Infantry Hospital.

42. MOUNT ABOO.—An upper-storied block, giving accommodation for ten families on each floor, has been completed during the past year. These quarters are on the scale authorized for hill stations. The total outlay on the Barracks at Mount Aboo has been Rs. 6,19,873 to the close of the year.

New Barracks.

43. KURRACHEE.—This work has been in progress since 1868. In 1871, the Government of India decided, that, instead of ten barracks, only five buildings should have upper stories added to them. The work has been completed, at a total cost of Rs. 6,91,130.

Infantry Barracks.

44. The lower portion of one of the Barracks has been fitted up as a Gymnasium, at a cost of Rs. 2,338.

Gymnasium.

45. A Powder Magazine has been constructed in the Napier Lines, for the small arms ammunition of the European Infantry Regiment. Expenditure, Rs. 3,752.

Powder Magazine.

46. Additions and alterations have been made to the existing building, at a cost of Rs. 2,785.

Armourers' Shop.

Regimental Cells.

47. HYDRABAD.—The existing cells have been improved, by increasing the height, and the construction of flat roofs. Cost, Rs. 2,496.

Sind Horse Lines.

48. JACOBABAD.—There are five pendalls, and two half pendalls for each Regiment. One half pendall has been nearly completed, and one whole pendall for the 2nd Regiment has been carried up to the level of the plinth. Estimate, Rs. 96,822; expended up to date, Rs. 10,005.

IV.—ORDNANCE.

Lascars' Lines, Colaba.

49. BOMBAY.—Lines for twenty-four married Lascars, attached to the Royal Artillery at Colaba, have been constructed at a cost of Rs. 2,055.

Arsenal Water Supply.

50. POONA.—A storage reservoir has been provided in the enclosure, which supplies ten iron tanks in the different yards of the Arsenal; cost, Rs. 2,512.

Gunpowder Works.

51. KIRKEE.—These buildings have been nearly completed. Extensive alterations to the roofs and walls of the Powder making houses were sanctioned during the year. Estimate, Rs. 18,13,422; cost up to date, Rs. 17,16,160.

Overseers' Quarters.

52. These buildings have been completed at a cost of Rs. 22,162.

Small Arms Ammunition Factory.

53. The Factory buildings have been completed, and the machinery connected with the making of cartridges, bullets, and caps has mostly been erected; very little remains to be carried out to put the whole work out of hand. Estimate, Rs. 3,50,429; expended, Rs. 3,31,790.

Quarters for Mechanics.

54. Accommodation for the Mechanical Engineers, and Overseers, attached to the Small Arms Ammunition Factory at Kirkee, has been provided. The quarters for two Mechanics still remains to be erected. Estimated cost, Rs. 66,350; expended, Rs. 52,539.

New Powder Magazine.

55. Additions, costing Rs. 8,485, have been made to this building.

56. Quarters for the Magazine Conductor at Kirkee have been constructed, at a cost of Rs. 5,424.

V.—COMMISSARIAT.

Steam Bakery.

57. ADEN.—This building would have been made over to the Commissariat Department before the close of 1872-73, but that, owing to certain defects in the machinery, and to an accident to the fly-wheel, some work remains to be done in the current year. The building is of stone masonry, coursed and neatly hammer dressed; roofing, chunam terraced. Estimate, Rs. 64,281; expenditure, Rs. 53,899.

Pendalls.

58. The Pendalls in the Commissariat lines, which had been destroyed by fire, were rebuilt in the year, at a cost of Rs. 2,360.

Steam Bakery.

59. KURRACHEE.—The building itself was completed early in the year; but the machinery requires to be put in and adjusted. The total expenditure has been Rs. 28,966.

VI.—STAFF.

60. POONA.—The work of substituting a double-tiled roof, for zinc sheeting to the Office of the Quarter Master General of the Army, has been completed. Some improvements to the subsidiary buildings have also been effected. Expenditure, Rs. 2,705.

VII.—NAVAL.

Hydraulic Lift Dock.

61. This work, which has been described in the Reports of previous years, was completed in September 1872, and handed over to the Marine authorities. Total outlay in India up to 31st March 1873, Rs. 6,35,583.

II.—CIVIL BUILDINGS.

I.—REVENUE.

62. BOMBAY.—Improvements have been effected in the Custom House premises, consisting of enclosing a compartment in the Import Shed to serve as a Wharfinger's Office; in providing a ventilator, weather boards, &c., at a cost of Rs. 960.

Custom House.

Customs Chowkey.

63. BELGAUM.—The Chowkey at Kondal has been completed. Expenditure, Rs. 9,011.

64. CANARA.—A Record-room for the Collector's records, and an Office for the Sub-Registrar at Carwar, have been nearly completed. The building consists of three rooms, with a 7 feet verandah on the faces exposed to the weather. The roof is covered with Mangalore tiles, which are neat, inexpensive, and afford sufficient protection from rain and heat. The floor is of asphalte. The rate for roofing, inclusive of a painted planked ceiling, has been Rs. 72-10-1 per 100 square feet. Outlay, Rs. 11,957.

Carwar Record-rooms.

65. DHARWAR.—The masonry work of the new office for the Registrar and Sub-Registrar has been finished. Estimate, Rs. 5,425; expended up to close of the year, Rs. 3,832.

66. RUTNAGHERRY.—The Deoghur Mamlutdar's Cutcherry has been commenced. Estimate, Rs. 26,486; spent in collecting materials, Rs. 5,500.

Deoghur Cutcherry.

67. NORTHERN KONKAN.—The verandah of the Mamlutdar's Cutcherry at Mangaum has been extended and widened, at a cost of Rs. 1,321. The road from the landing-place for salt at Callian, to join the main road, has been completed for Rs. 2,996. The following expenditure has been incurred on account of the Salt Revenue Department:—

	Rs.
A road from the Alibaugh Custom House to the Landing-place ...	2,000
A Small Bunder at Antora	6,320
Accommodation at Oolwa Bunder for the Ferry Steamers to come alongside at all tides.	3,534

Tasgaum Cutcherry.

68. SATTARA.—This building, which is on the standard plan, has been carried up to the roofing. Estimate, Rs. 23,708; expended, Rs. 17,689.

69. SHOLAPOOR.—Additions and alterations, at a cost of Rs. 2,955, have been made to the Mamlutdar's Cutcherry at Sangola.

70. AHMEDNUGGUR.—Additional accommodation has been provided, at a cost of Rs. 2,109, for the Mamlutdar's Cutcherry at Rahoorie.

71. NASSICK.—A new Record-room has been built in the Mamlutdar's Cutcherry at Suttana; and the old Record-room has been converted into the Chief Constable's Office. A Sub-Registrar's Office has been added to the left wing of the building. Estimate, Rs. 5,458; expended, Rs. 4,704.

Suttana Cutcherry.

72. KHANDEISH.—The Julgaum Cutcherry, close to the Railway Station, has been nearly finished. It contains Courts for the Mamlutdar and Chief Constable of Police, Record-room, Prison, and other accommodation. Expended, Rs. 21,356.

Julgaum Cutcherry.

73. The District Bungalow at Challisgaum contains three rooms, with bath-room and out-offices. Outlay, Rs. 6,777, of which Rs. 3,728 were provided from Local Funds.

Challisgaum Bungalow.

74. SURAT AND BROACH.—The new Mamlutdar's Cutcherry at Ahmode has been commenced. Estimate, Rs. 20,417; expenditure, Rs. 10,104.

Ahmode Cutcherry.

75. An additional room is being added to the Collector's Cutcherry in the Castle at Surat. Estimate, Rs. 7,700; expended, Rs. 4,480.

Surat Cutcherry.

76. KAIRA.—The main building will afford accommodation for the Mamlutdar and his establishment, the Registrar's Office, Treasury, records, and prisoners. The Police Lines, and other subsidiary accommodation, are in two side blocks; the whole is enclosed with a wall, and a well has been constructed within the enclosure. Estimate, Rs. 26,268; expended, Rs. 12,147.

Kalole Cutcherry.

Godra Assistant Collector's Bungalow.

77. The foundations and plinth of this building have been completed; it will be finished by the rains of 1873. Estimate, Rs. 7,000; expended, Rs. 3,036.

Godra Deputy Conservator's Bungalow.

78. The superstructure of the bungalow for the Deputy Conservator of Forests, Punch Mahals, has been completed. Estimate, Rs. 5,191; expended, Rs. 2,616.

79. AHMEDABAD.—Additions and alterations to the Record-room of the Collector's Cutcherry at Ahmedabad are in progress. Estimate, Rs. 7,425; expended, Rs. 6,550.

Collector's Record-room.

80. A new Cutcherry for the Mamlutdar at Veerumgaom is in progress, but there has been some delay in obtaining possession of the site. Estimate, Rs. 28,791; expended, Rs. 5,711.

Veerumgaom Cutcherry.

Purantej Cutcherry.

81. Four rooms are being added to the Cutcherry at Purantej, for prisoners, for the treasury, and for stores. Estimate, Rs. 4,528; expended, Rs. 2,520.

82. The superstructure of the Registration Office at Ahmedabad has been raised to 9 feet, and the wood-work for roofing has been prepared. Estimate, Rs. 9,883; expended, Rs. 3,605.

Ahmedabad Registration Office.

83. KURRACHEE.—A block of buildings has been constructed near the Customs Gate at the head of the Napier Mole, to accommodate the Export and Import Gate-keepers, the Inspector, and the peons of the establishment. Cost, Rs. 10,215.

Custom House.

Kotree Deputy Collector's Bungalow.

84. A new Bungalow for the Deputy Collector at Kotree is in progress. Estimate, Rs. 11,392; expended, Rs. 4,293.

85. SHIKARPOOR.—The Cutcherry at Ghotki consists of Court and Offices, with Post Office, Registry, and Treasury rooms at the sides. On the flanks are two Jails, with open yards for prisoners. There are also quarters for a guard of twelve mounted police. Total cost, Rs. 10,728.

Ghotki Cutcherry.

Kumber Cutcherry.

86. Increased accommodation is being given to the Mooktyarkar and the Police at Kumber. Estimate, Rs. 6,283; outlay, Rs. 4,094.

87. The walls of the main building have been carried up to the springing of the arches which support the roof, and nearly all the arches have been turned. The Rural Police lines are completed, and the foundations of the Mounted Police lines and stables have been commenced. Estimate, Rs. 10,041; expenditure, Rs. 5,000.

Kardarate at Yarhi Yaseen.

II.—POST OFFICE.

88. BOMBAY.—The new General Post Office, a description of which will be found in paragraph 116 of the Administration Report of 1868-69, was occupied by the Postal Department at the close of 1872. The iron porches on each side, and some of the tiled flooring, have not yet arrived from England. Estimate, Rs. 5,88,369; expenditure, Rs. 5,80,207.

Post Office.

89. New Stables for the Postal Department are being erected on the ground between the new Sailors' Home and H. M.'s Dockyard. The design, by Mr. F. W. Stevens, is modern Gothic. Accommodation will be afforded for twenty-six horses, seventeen vans, a large Workshop, a Hospital for four horses, Store-room, and Servants' quarters. Apartments for the Superintendent are also provided. Estimate, Rs. 49,958; expended, Rs. 4,705.

Post Office Stables.

90. BELGAUM.—A Post Office has been constructed at Sunkeshwur, at a cost of Rs. 1,577.

91. KULLADGHEE.—Post Offices have been erected at Bagulcote and Hoongoond; the former at a cost of Rs. 1,601, and the latter of Rs. 851.

92. KHANDEISH.—A Post Office has been erected at Challisgaum for Rs. 1,816.

93. SURAT AND BROACH.—A Post Office has been constructed at Bardolee for Rs. 3,296; at Palej for Rs. 2,770; and at Baroda for Rs. 1,058.

94. KAIRA.—The Post Office at Memoodabad has been completed at a cost of Rs. 2,574.

III.—TELEGRAPH.

95. BOMBAY.—The New Telegraph Office (see para. 78 of the Report of 1871-72) has made satisfactory progress. The whole of the ground floor has been completed, and the first floor has been raised to 18 feet. Estimate, Rs. 2,32,756; expended, Rs. 1,25,994.

96. RUTNAGHERRY.—The Telegraph Office at Vingorla has been completed for Rs. 5,095. The main building provides quarters for the Telegraph Master, and an office.

97. NASSICK.—The Telegraph Office at Deolalee has been completed. Estimate, Rs. 16,712; expenditure, Rs. 14,593.

98. KHANDEISH.—The Telegraph Office at Bhosawul is in progress. It contains one signalling room, and six rooms for the use of the Telegraph establishment, besides stables and out-houses. Estimate, Rs. 19,276; expended, Rs. 9,949.

99. AHMEDABAD.—The new Telegraph building for Ahmedabad is in progress. The superstructure has been raised to ten feet. Estimate, Rs. 18,995; expended, Rs. 8,699.

100. DEESA.—A residence for the Superintendent of Telegraphs, Rajpootana Division, has been constructed at Deesa, at a cost of Rs. 8,041.

IV.—GENERAL.

101. BOMBAY.—Foundations for three sets of triple furnaces have been filled in, and the brick and lime masonry work of the same completed to floor level. The whole of the improvements to the Mint buildings are estimated to cost Rs. 1,52,227, of which the expenditure up to date has been Rs. 82,664. Blue basalt stone paving has been substituted for the old tiled flooring of the assay furnace room, at a cost of Rs. 700.

Mint Buildings.

102. The Native General Hospital has progressed satisfactorily. The walls of the second floor have been raised, and the roofs put on. The Minton tile flooring of the whole building (excepting three rooms on the second floor) has been laid; the central feature has been raised above the general level of the roof, and the main building with out-offices will be ready for occupation during the monsoon of 1873. By the addition of Apothecaries' quarters, small pox and infectious wards, water supply, gas, drainage, &c., the estimate has been raised to Rs, 3,56,887, of which Rs. 2,22,696 have been expended up to date.

Native General Hospital.

European General Hospital, Fort George.

103. Additions and alterations have been made to the Hospital for Europeans, at an aggregate cost of Rs. 3,184.

104. Two new wards have been added to the Lunatic Asylum at Colaba, the floors of which have been paved with asphalte; the warders' shed has been enclosed, and other minor improvements have been effected. The total expenditure has been Rs. 44,327.

Lunatic Asylum.

105. CANARA.—The Dispensary consists of a Surgery, 15 by 10½ feet; room for sick, 21 by 22 feet; quarters for Hospital Assistant, and a bath-room, with a verandah on three sides. Expenditure, Rs. 3,752.

Moondagode Dispensary (Local Funds).

Gokak Dispensary (Local Funds.)

106. BELGAUM.—The construction of a dispensary has been commenced at Gokak. Estimate, Rs. 5,503.

107. The subsidiary buildings to the Dispensary at Uthnee have been completed at a cost of Rs. 2,276. (*Local Funds*).

Sassoon Hospital.

108. POONA.—The paving of the upper story of the Sassoon Hospital at Poona has been completed. Expenditure, Rs. 11,250.

109. NORTHERN KONKAN.—A Hospital and Dispensary have been constructed at Alibaugh, from funds provided by Government, the Local Funds Committee, and the local Municipality. Expenditure, Rs. 7,763.

Alibaugh Hospital.

Civil Hospital.

110. AHMEDNUGGUR.—An upper story has been added to a portion of the Civil Hospital, at a cost of Rs. 4,093.

Civil Hospital, (Local Funds).

111. KAIRA.—The new Civil Hospital at Kaira has been completed, and is ready for occupation. Expended, Rs. 27,750.

112. JACOBABAD.—The main building of the Civil Hospital at Jacobabad consists of wards for males and for females; an operating room, dispensary, receiving and prescribing rooms, and two store-rooms. Two bath-rooms, two cook-rooms, quarters for the Hospital Assistant, and for servants, and a dead-house, are provided in separate buildings. Estimated cost, Rs. 13,170; expended, Rs. 10,007.

Civil Hospital.

113. OOMERKOTE.—The main building was completed in 1871-72. The subsidiary buildings have been nearly completed. Estimate, Rs. 14,912; expended, Rs. 12,946. The work has been partly paid for from Local Funds.

Civil Hospital.

Residency. 114. ADEN.—Additional accommodation, at a total cost of Rs. 11,564, has been provided at the Residency at Steamer Point.

115. KIRKEE.—An enclosure wall has been constructed, along the Awund Road, round a portion of the Gunnesh Khind Estate. The total length is 6,258 running feet. Cost, Rs. 10,582.

Civil Surgeon's Residence. 116. KAIRA.—A house for the Civil Surgeon at Dohud is in progress. Estimate, Rs. 6,855 ; expended up to date, Rs. 2,005.

Commissioner's Office. 117. KUBRACHEE.—Additional accommodation has been provided for the office of the Commissioner in Sind. The Clerks' Office has been lengthened, and a new record-room, with an upper story for the office of the Assistant, has been added. Estimate, Rs. 5,987; expenditure, Rs. 4,887.

Superintending Engineer's Office. 118. Increased accommodation has been provided for the Office establishment of the Superintending Engineer in Sind, at a cost of Rs. 2,808.

New Secretariat. 119. During the year the whole of the ground floor, and a portion of the first floor have been temporarily occupied by Government Offices. The work remaining to be done is of a minor miscellaneous character, such as providing Vehar water, drainage, laying down Minton tiles, &c. The centre tower has been completed to roof cornice. The delay in receiving the Minton tiles, ordered from England, has retarded the completion of the building. Estimate, Rs. 12,63,633; expenditure, Rs. 11,46,976.

Public Works Offices. 120. The Public Works Building came into occupation at the commencement of the year. Estimate, Rs. 4,38,937; expenditure, Rs. 4,12,144.

New Sailors' Home. 121. The general arrangement of the Sailors' Home was described in last year's Report. In 1872-73 the rubble stone and lime walls, hammer squared facing, and Porebunder stone bands, have been built up to the springing of arches on the ground floor. Estimate, Rs. 3,06,638; expended, Rs. 73,675.

The Queen's Statue. 122. An ornamental cast iron railing is being put up, on a cut-stone dwarf wall, round the statue of Her Majesty the Queen.

Elephanta Caves. 123. The earth which had long accumulated at the entrance of Cave No. I. has been removed, a portion of the paved approach to it has been re-laid in a new position, and the entrance gate and railing have been removed further away from the cave, so as to allow a better view of it. The north-east opening has been fenced in, and the head of one of the Leogriffs in front of one of the side entrances, has been refixed. Caves II. and III. have been drained of the rain-water, which hitherto stood in them for several months every year. A Custodian, with a suitable establishment, has been appointed to take charge of them. The cost of the works has been Rs. 785.

124. AHMEDABAD.—Repairs, costing Rs. 1,978, have been effected to the Roza of Ranee Sepree, on the Astoria road.

V.—ECCLESIASTICAL.

Burial Ground. 125. NASSICK.—A compound wall, 3 feet high, has been constructed in lieu of the existing milkbush hedge, round the Burial ground at Nassick. Two iron-barred gates have been renewed. Total cost, Rs. 3,840.

Cemetery. 126. AHMEDABAD.—A wall has been constructed round the Cemetery at Ahmedabad, in substitution of the cactus hedge which existed hitherto. The wall is 3½ feet in height. The gate to the Roman Catholic portion, and the fence between the two cemeteries, have been removed, new paths have been constructed, and gravelled, and a wicket gate has been placed at the east wall. Expenditure, Rs. 2,417.

Gogo Cemetery. 127. An enclosure wall, 200 feet in length, on the north and south sides, and 90 feet on the east and west sides, has been constructed of stone and lime masonry. The wall is 3½ feet in height; a teakwood gate; between stone pillars, has been provided. Expenditure, Rs. 2,625.

VI.—EDUCATIONAL.

New Elphinstone High School. 128. BOMBAY.—The Elphinstone High School, situated between the St. Xavier's College and Cruickshank Road, was commenced on the 2nd January 1873. The accommodation provided for is as follows:—

On the ground floor, 4 class-rooms, each 30′ × 26′; 4 class-rooms, each 26′ × 25′, and 2 Masters' rooms, each 26′ × 20′. On the first floor, 10 class-rooms, each 30′ × 26′; 4 class-rooms, each 26′ × 25′; 2 Masters' rooms, each 26′ × 20′, and a Lecture Hall, 62′ × 35′. On the second floor, 6 class-rooms, each 30′ × 26′; a Library, 30′ × 22′, and a Librarian's room, 22′ × 20′. In all there are 28 class-rooms. Urinaries and latrines are placed at the rear ends of the wings, with an open passage cutting off direct communication with the adjoining rooms, thus ensuring thorough ventilation. The centre portion of the ground floor, extending under the lecture hall, and the three class-rooms on either side, is set apart as a covered play-ground, the upper main and cross walls being carried on cut-stone arches. An open corridor runs all round the building, the angles and the rear of wings being enclosed for water rooms, &c. The main portion of the building, for a length of 259 feet, is carried up three stories, the height of the ridge being 66 feet above plinth. The roof of the central feature is 15 feet higher. The end portions, including wings, consist only of one upper floor, and are 48 feet in height up to ridge. The total length is 452 feet. A Porch is formed below the large flight of steps, 40 feet wide, leading to the Central Hall on the first floor. The height of the Central Hall, through the two floors, is 35 feet. There are four large, and two small staircases in the building, placed in convenient positions. The floor over the Central Hall is allotted to the Library, and the Librarian's room, which are surrounded by a narrow verandah. The style of architecture adopted is Italian Gothic, modified to suit the requirements of the climate. The design has been prepared by Mr. G. T. Molecey. The walls are to be of rubble masonry, faced externally with coursed blue basalt, the dressing being of Coorla and Porebunder stone. The foundations of the main building have been completed. The estimated cost is Rs. 5,96,076, towards which a donation of Rs. 1,50,000 has been made by Sir Albert David Sassoon, Knight, C.S.I. The expenditure up to the close of the year has been Rs. 38,869.

University Senate Hall.

129. The University Senate Hall has been well advanced. All the basement and first floor walls have been raised to their full height; the groining over the apse, corridors, and hall is nearly finished, and the roof woodwork is being put up. Porebunder stone roof balustrading is in progress. Estimate, Rs. 4,15,804; expended, Rs. 2,36,732.

University Library and Clock Tower.

130. This work has progressed satisfactorily. The roof planking is being nailed on, and the flooring and ceilings are in progress. The second floor cornice of the Clock Tower is being set in chunam. Estimate, Rs. 5,28,093; expended, Rs. 2,36,936.

Elphinstone College.

131. A circular lecture platform has been constructed in the basement entrance hall of the Elphinstone College; double plank partition, and shelving in Laboratory Lecture room; wooden platforms have been placed under the Professors' seats, and double plank partitions to form four extra rooms on basement, and first floor rear corridors, have been put up. Asphalte has been laid in the privy yard. The whole of these items have been completed at a cost of Rs. 5,620.

School of Art.

132. Various additions and alterations have been made to the School of Art, at a total outlay of Rs. 2,039, the funds having been provided by a contribution from the School funds.

High School (Local Funds).

133. DHARWAR.—This building is rapidly approaching completion. Of the estimate of Rs. 42,460, a sum of Rs. 39,461 has been expended up to date.

Training College (Local Funds).

134. The dining hall, one servant's quarters, the two Masters' quarters, and the class-room buildings have been nearly completed. Expended up to date, Rs. 44,082.

New Boarding House (Local Funds).

135. KULLADGHEE.—The Boarding House is in connection with the school at Kulladghee, and is for the accommodation of thirty-eight students of various castes. The building is 30 by 12 feet. Estimate, Rs. 8,161; expended, Rs. 669.

136. BELGAUM.—School buildings have been commenced at Hookery, Shadbul, Duddre, and Kalkoondree, at an aggregate estimated cost of Rs. 12,449, contributed by *Local Funds*. The expenditure in the year has been Rs. 778.

137. KOLAPOOR.—The School House at Sheglee, constructed from the Kolapoor State Funds, has been completed at a cost of Rs. 7,678.

138. RUTNAGHERRY.—A School House has been built from State Funds at Nadhowde, to accommodate one hundred boys. Expenditure Rs. 3,408.

School House, Turla (Local Funds).

139. SATTARA.—This building is on the standard plan for one hundred boys; but the roof is of corrugated iron. Estimate, Rs. 5,150; expenditure, Rs. 3,043.

School Houses at Oozerda and Peit (Local Funds).

140. Both these buildings are on the standard plan for seventy-five boys. The estimate of each is Rs. 4,048; expenditure on each, Rs. 2,600, up to close of year.

141. POONA.—In the Poona Districts a school house has been completed for Rs. 3,405. The followingare, in progress: at Baramuttee, Rs. 1,657 have been expended: at Pallasdeo, Rs. 2,008, and at Walleh, Rs. 1,170.

School Houses (Local Funds).

142. KIRKEE.—The Workshop has been finished, but the setting up of the machinery, to which some additions have been lately sanctioned, is still in progress. Estimate, Rs. 33,807; expenditure, Rs. 25,317.

Workshop for the Engineering College.

143. AHMEDNUGGUR.—This building has been erected according to the standard plan for the accommodation of one hundred and fifty boys. Cost, Rs. 3,282.

School House at Shreegonda (Local Funds).

144. NASSICK.—This building has been completed at a cost of Rs. 3,640.

School House at Sinner (Local Funds).

145. KHANDEISH.—School buildings have been completed, from *Local Funds*, at Assoda, Errundole, Challisgaum, Pimpulgaum, Shendoornee, Bhosawul, and Dhoolia. Aggregate estimated cost, Rs. 43,405.

146. SURAT AND BROACH.—The following expenditure from *Local Funds* has been incurred in the year on school buildings in these districts :—

At Kurchan for fifty boys	Rs.	1,776	Completed.
„ Matur for ditto	„	1,786	
„ Manubar for ditto	„	1,933	
„ Dora for ditto	„	1,775	
„ Rahid for ditto	„	1,847	
„ Ahmode for two hundred boys	„	2,848.	Estimate Rs. 15,391.
„ Broach for two hundred and fifty boys	„	2,846.	Do. „ 15,391.

147. KAIRA.—At seven places in this district, School buildings have been under construction. The schools at Mohlel (Rs. 3,437), at Saloon (Rs. 2,349), and at Unetta (Rs. 1,630), containing accommodation altogether for two hundred and twenty-five boys, have been completed and occupied in the year. The others at Matur, Bochasan, Peeplas, and Oad, are in progress *(Local Funds)*.

148. AHMEDABAD.—A School House has been constructed for Rs. 2,229, from *Local Funds*, at Raipore, to accommodate seventy-five boys.

VII.—JUDICIAL.

149. BOMBAY.—The ground floor walls have been raised to the height of 16 feet, and about two-thirds of the corridor Coorla cut-stone arches have been turned. Estimate, Rs. 14,07,261; expenditure, Rs. 1,94,934.

High Court.

150. CARWAR.—More than half of the work of constructing the Jail has been completed, and it is expected that it will be out of hand by the close of 1873. Mangalore tiles have been used throughout this work; they are, in Carwar, cheaper than the common native tiles. The cost of a Mangalore tiled roof, with a planked ceiling, averages about 55 Rupees per 100 square feet, for a 16 to 18 feet building. Estimate, Rs. 1,69,322; expenditure, Rs. 94,986.

Jail.

151. SATTARA.—Police lines have been completed at Vetta for Rs. 2,240; at Dhywaree for Rs. 2,234; and at Wadooj for Rs. 2,304. At Tasgaum they are in progress.

152. POONA.—The second block of Solitary Cells for Europeans has been nearly completed in the year, as well as eight ranges of Solitary Cells for Natives. The infectious ward, cook-shed, and dead-house have also been completed. Four hospital wards have been taken in hand. Estimate, Rs. 7,34,514; expended, Rs. 5,56,711.

Yerrowda Jail.

153. NORTHERN KONKAN.—The construction of the new Jail, (within the old Fort), has not progressed very satisfactorily. The chief work has been digging out debris, and clearing the interior. Total expenditure up to date, Rs. 1,66,040, out of an estimate of Rs. 3,92,283.

Tanna Jail.

Court House, Tanna.

154. A new Record-room, fitted with shelves, has been added to this building, at a cost of Rs. 5,463.

155. At Moorbar new permanent lines have been built in two blocks, each to accommodate fifteen men and one non-commissioned officer. The work has been completed. Expenditure, Rs. 10,372.

Police Lines at Moorbar.

156. Similar lines have been erected at Alibaug, in three blocks, to accommodate seventy-five men and two non-commissioned officers. Expenditure, Rs. 22,920.

Lines at Alibaug.

157. SURAT AND BROACH.—Police lines have been constructed at Pakhajun, at a cost of Rs. 2,130; and at Hansote at a cost of Rs. 9,670.

Jambooghóra Police Station.

158. KAIRA.—As anticipated, this defensive Thanna has been completed in the year. Expenditure, Rs. 42,423.

Police Line at Jeykote.

159. This is a semi-defensive building, containing ten rooms, with a central enclosure, 45 by 45 feet. Estimate, Rs. 4,554; expended, Rs. 2,494.

Police Lines, Godra.

160. Lines for one hundred men of the Guzerat Bheel Corps have been commenced. Estimate, Rs. 12,890; expenditure, Rs. 3,537.

Police Lines, Ahmedabad.

161. AHMEDABAD.—Additions and alterations have been in progress to the Lock-ups, Inspector's Office, and Police Lines at Ahmedabad. Estimate, Rs. 15,155; expended, Rs. 7,555.

162. KURRACHEE.—New lines have been constructed for the Rural Police at Meerpoor Sakra, at a cost of Rs. 3,907.

163. A Court-house has been completed at Dadoo, at a cost of Rs. 4,527, from *Contributions.*

Jail Hospital.

164. SHIKARPOOR.—The Jail Hospital consists of one ward, with a dispensary attached, and a verandah in front. The work is half finished, but suspended, pending the settlement of the objection which has been raised by the Inspector General of Prisons, and the Civil Surgeon, to a flat roof for the building. Estimate, Rs. 2,500; expended, Rs. 1,104.

III.—AGRICULTURAL.

165. DHARWAR.—The principal duty of the Executive Engineer for Irrigation, in this Collectorate, is to maintain and repair the existing works, which are very numerous, and yield a large revenue. Particulars regarding the area irrigated, and revenue from these works will be given in the Annual Revenue Report. Repairs and minor improvements were executed to 11 of them at a cost of Rs. 10,734, partly from Imperial funds, and partly from contributions by the ryots.

Muddúck Tank.

166. The allotment for this work was Rs. 16,000, but no expenditure was incurred, owing to the question of the amount of compensation to the Mysore Government, for the land to be submerged, by the closing of the sluices in the weir across the Choardy. The canals, one on each bank, have been completed for a length of 6 miles. The area under command up to this point is 2,046 acres, of which 255 acres were irrigated during the year. The water rate has been fixed at Rs. 8 per acre all round, and the crops principally cultivated are sugar and rice. A proposal has been submitted to institute a lower rate for rubi crops. If this is sanctioned, and the canals at the same time extended so as to command more land, there is little doubt as to the work proving remunerative.

Estimated cost ...	...	... Rs. 1,72,836
Allotment for 1872-73 ...		... „ 16,000
Total expenditure	...	... „ 1,15,049

Surveys.

167. The Dhonee reservoir project is still under investigation.

Bankeri Tank.

168. KULLADGHEE.—This project is still under reference to the Political Department, with reference to a portion of the Ramdroog State, which the canal will traverse. The work is to irrigate about 5,000 acres, and a proposal has been made by the Political Officers that the Chief of Ramdroog should pay a share of the cost of the work, and become entitled to a corresponding share of the water. The Irrigation Officers have proposed that the work should be made entirely by Government, and that the Chief of Ramdroog should merely transfer the strip of land required for the canal to Government, the usual compensation being given for it. The holders of the Ramdroog land under command of the canal would be allowed water in the same way as our own ryots, the water rates on the area irrigated being paid by the Chief, who would collect them from his own ryots. This proposal is now under the consideration of the Political Officers.

169. BELGAUM.—The revised survey for this project has been completed, and plans and estimates are under preparation. The estimate will amount to about Rs. 10 lakhs, and the area to be commanded about 90,000 acres. The project has already been before the Government of India, and the present project is being drawn up in accordance with their instructions.

Gokak Canal.

170. SATTARA.—The Krishna Canal, 33 miles long, is completed, with the exception of the modules, and branch channels. This is the fourth year since the work was brought into operation, and the revenue is steadily increasing. The year 1872-73 was a particularly favourable one as regards rainfall, and it is most satisfactory that no falling off in the revenue took place.

Krishna Canal.

171. As one of the indirect benefits conferred on the people by this work, the Executive Engineer reports that the area of ground-nut—a most valuable crop—on the land, under the canal, has increased very largely since water was admitted. The people do not irrigate it, as a rule, unless there is a failure of the rain, but the security afforded by the presence of the canal has induced them to increase the area, as they know they can, at any time, get water, if necessary. The revenue derived from the work amounted to Rs. 10,580, or Rs. 1,030 in excess of last year's revenue. The expenditure on maintenance, and repair, was Rs. 5,333.

Amount of estimate	Rs.	6,00,309
Allotment.	Rs.	12,000
Expenditure in year	Rs.	11,288
Total expenditure	Rs.	5,92,474

172. This work, consisting of a weir across the Maun river, and a canal 8 miles long commanding an area of 4,000 acres, is situated in one of the driest parts of the Presidency. The water-supply during the hot season is unreliable. The work was completed, and opened, during the year under report, and irrigated an area of 160 acres, yielding a revenue of Rs. 570. The cost of repairs, and maintenance, was Rs. 496; amount of estimate, Rs. 66,065; expenditure, Rs. 64,388.

Gondowlie Canal.

173. This work, situated in the upper part of the Yerla Valley, consists of a tank, formed by an earthen dam, 55 feet high, and 2,930 feet in length with a canal 9 miles long, commanding an area of 7,000 acres. The rainfall of the district is very precarious, and the tank is likely to prove of great benefit. During the year the closing of the dam formed the principal item of work. This was effected in January, and the dam is now complete. Owing to heavy floods, the closing proved a more difficult, and expensive piece of work, than was anticipated. Water will be admitted to the canal, it is hoped, this season. Estimate, Rs. 1,80,272; expenditure, Rs. 1,86,563.

Maynee Tank.

174. The Yerla, Chikli, and Rewaree Canals—works in operation in this Collectorate—were maintained in proper order at a cost of Rs. 3,612, the revenue derived from them having been Rs. 3,684. Owing to the very plentiful and seasonable fall of rain, the area irrigated on these works fell short of that irrigated in the previous year, while, from accidental causes, the expenditure for maintenance was larger.

Works in operation.

175. SURVEYS.—The Mhuswad Tank project plans have been revised, and are now in the Chief Engineer's Office, awaiting the result of correspondence with the Revenue Survey Officers regarding the probable revenue from the scheme. The project is a promising one, the area under command being very large, and consisting of all that district lying in the fork of the Maun and Bheema Rivers—directly under command, the area is 100,000 acres. The estimated cost of the work is Rs 13½ lakhs.

Mhuswad Tank.

176. The surveys for the small tank at Nehr, to supplement the hot weather discharge of the River Yerla, were resumed during the year. The present water-supply in the river is fully utilized, and an increase would, no doubt, be attended with a large increase in the area of irrigation. The tank at Nehr is intended to effect this. The Chief Engineer inspected the site and greater part of the upper portion of the river's course. He was much struck with the manner in which the people exerted themselves to make the best use of every drop of water they could divert from the river, or nullahs. There was hardly a nullah on which something had not been attempted. The discharge of the river was very slender at the time, and so completely is the water used up, that, were it not for the springs being scattered along the river bed, and having to be picked up here and there by a fresh set of paths, or canals, there would be no water at all visible below Nehr.

Yerla Tank.

177. SHOLAPOOR.—This work has been entirely completed, with the exception of the last six miles of the perennial canal, and 12 miles of the right bank canal. The canals were opened for irrigation last year, but this year was the first in which water rates were levied for the land irrigated. The rainfall was

Ekrook Tank.

most unusually heavy, 41 inches, the largest on record as having occurred at Sholapoor. Twelve inches of this fell in one day, and the water in the tank, which has an area, at level of waste weir crest, of 10·6 square miles, rose to a depth of 10 feet above the right bank waste weir crest, corresponding to 6 feet on left bank weir, or seven feet below top of dam. The length of former is 300 feet, and of latter 450. The drainage area of the tank is 175 square miles, and the discharge of this flood, after passing the tank, is calculated at about 40,000 cubic feet a second. The rear slope of the dam suffered from guttering, and slips, and the outlay on repairs was consequently heavy. The outlay on original works was on some unfinished drainage works on the perennial canal. Estimate, Rs. 9,45,613; expenditure, Rs. 9,13,532.

178. The progress made with the Pundherpoor water-supply project, and the scheme for the drainage of the town carried out under the Executive Engineer for Irrigation, Sholapoor, will be found described under Part V. of this report.

Moota Reservoir and Canal.

179. Poona.—The dam across the River Moota, at Kurruckwasla, which is to form the reservoir, has been raised to a height of 86 feet above the river bed, or 15 feet below the top. The sluices in the dam, through which the canal water is to pass, have been completed, as also those especially designed for the turbines for the utilization of the water power. The weir over which the waste water from the reservoir is to pass has been built in to 10 feet below the top of the dam.

The canal for a length of 10 miles to Poona is far advanced, the excavation is nearly all completed, including the tunnel, where it enters the Cantonment, and the masonry works for the passage of the cross drainage are also well advanced. It is expected that the canal will be ready for opening as far as Poona next August.

The works being in this state, it may not be uninteresting to give a short description of their aim, and the principal features of the scheme. To begin with a brief description of the works themselves: They consist of a reservoir formed by a masonry dam thrown across the Moota River at a point about 10 miles above Poona, and a canal 100 miles long, which passes through Poona, and, after furnishing that place with a plentiful supply of good drinking water, affords a supply of water for the irrigation of a very dry strip of country lying to the east of Poona, of an average width of about 4 miles. The area of the catchment basin of the river above the dam site is a little short of 200 square miles, but it includes a large proportion of ghaut district, where the rainfall is seldom less than 200 inches. The river, it is calculated, furnishes a supply of 54,281,500,000 cubic feet annually, and the reservoir formed by the dam, which is to be 4,583 feet long, with an extreme height of 100 feet, contains 3,476,000,000 cubic feet, so that, in an average season, it will fill 16 times.

The area commanded by the canal is 147,200 acres.

Besides providing for the irrigation of this tract, and for the supply of Poona, the canal is made navigable from the dam site to Poona, and at the dam the water power available is to be utilized by means of turbines for sugar, cotton pressing, or weaving mills.

The estimated cost of the works is 50 lakhs, and it is anticipated that they will ultimately yield a return of about 10 per cent. The masonry dam is one of the largest in the world. The expenditure up to end of the year under report was Rs. 28,54,265.

Neera Project.

180. Surveys.—The information regarding compensation for the land required for this project, has been collected, and it now awaits a reply from the Revenue Survey Department on the subject of water rates.

181. Plans and estimates for the repair and improvement of the Narayengaum Bundara have been sanctioned. The estimate amounts to Rs. 2,400, and provides for the irrigation of 105 acres, in addition to the area now irrigated. The area now irrigated is 426 acres, yielding a revenue of Rs. 4,325, or Rs. 11 per acre.

Lakh Canal.

182. Ahmednuggur.—This work is completed, with the exception of the branch channels, and their masonry heads. The branch, or distributing channels are in progress, and during the year under report the greater part was completed. The work consists of a canal 21 miles long, on the left bank of the Praihra River, with head works and weir near the village of Lakh. The area commanded by the canal is 24,000 acres. The district is a very poor one, and very thinly populated. The progress of irrigation is consequently slow, but there is little doubt of the work proving eventually remunerative. Estimate, Rs. 2,56,705; expenditure, Rs. 2,43,681.

Bhatodee Tank.

183. The canal from this tank has been completed, and all that now remains to be done is to complete the upper 10 feet of the dam in the centre. The area commanded by the work, which is situated 16 miles from the Cantonment of Ahmednuggur, is 14,000 acres.

The area irrigated during the year under report was very small, owing to the abundant rainfall. Estimated cost, Rs. 2,50,128; expenditure, Rs. 2,43,100.

184. This work is situated on the Praihra River, about 30 miles above the Lakh Canal. It consists of a canal 10 miles long, with weir across the Praihra at Wozur, and commands an area of 3,840 acres. The work was commenced in 1869, but owing to the very small allotment under the head "Ordinary", its completion has been seriously retarded, and the work is not yet opened. The canal was excavated in 1869-70 as a famine relief work, and the weir is now nearly completed, as well as some of the canal masonry works. Estimate, 1,52,090; expenditure, Rs. 98,238.

Wozur Canal.

185. NASSICK.—Situated about 15 miles from the station of Nassick with head works on the Kadwa, commands an area of 20,000 acres. The canal being 11 miles long, owing to accidents to the weir, the completion of this work has been delayed, but it is now ready for opening, and irrigation will be commenced this monsoon. Estimate, Rs. 98,363, expenditure, Rs. 1,10,983.

Palkheir Canal.

186. SURVEYS.—The plans and estimates for this project were returned to the Executive Engineer for Irrigation, for revision in July 1872. Instructions were subsequently received from the Government of India to suspend further investigations for large projects, until the remunerative return from the works already constructed had been established. This project has accordingly been postponed for the present.

Godavery Project.

187. KHANDEISH.—The work in this division consists principally in the repair, and maintenance, of the existing works, which yield a large revenue, and require constant attention owing to the number of masonry works on them. Particulars of the area irrigated, and revenue, will be given in the Annual Revenue Report. A very severe flood occurred in September, which did great damage to the old works. An outlay of Rs. 25,000 was incurred from Imperial funds on repairs to these works.

Maintenance and repair of existing works.

188. The reconstruction of the aqueduct over Nulla No. 3 on this canal has been completed, and the work is now in operation for its whole length. The flood of September interfered, to some extent, with the irrigation, but the area is steadily increasing, and there is every hope of this work eventually proving remunerative. Estimate, Rs. 7,24,647; expenditure, Rs. 7,18,000.

Jamda Canal.

189. This work is designed to supplement the supply of water in the Panjra River. It is situated 5 miles above the Military Station of Dhoolia on one of the tributary nullas of the Panjra, and the supply of water it furnishes will be utilized by old works on the Panjra, below Dhoolia, to which the supply is precarious, and uncertain. The work is partially completed, and will be brought into operation this season. It consists of an earthen dam with the usual outlet valve arrangements, the only peculiarity in this case is that the water is passed through a tunnel in the rock on the side of the valley, instead of through a masonry culvert under the dam. This system is expensive, and, though not absolutely necessary, is the safer method of the two. Estimate, Rs. 2,53,086; expenditure, Rs. 2,11,500.

Mooktee Reservoir.

190. A small work situated near Bhosawul. The tank has been completed, and the distributing channels alone remain to be finished. Estimate, Rs. 28,414; expenditure, Rs. 26,600.

Hurtala Tank.

191. This work, situated in the Amulnair Taluka, is designed for the irrigation of an area of 1,060 acres of land. It consists of a tank formed by an earthen dam 1,100 feet long, situated just below the junction of three nullahs, about 1¼ miles above the village of Mhuswa. The greatest height of the dam will be 36 feet; the reservoir it forms will have an area of 420 acres, and when full will contain 158,570,000 cubic feet of water. The water is to be distributed by means of two main distributing channels, one on each side of the river. Together, they command an area of 2,060 acres with the designed length.

Mhuswa Tank.

The work was commenced just before the expiry of the year. Estimated cost, Rs. 1,23,695; expenditure, Rs. 820.

192. SURVEYS.—The plans and estimates for this work have been returned to the Executive Engineer for revision, and some further surveys have been made of alternative sites. The object of the work is to supplement the Girna River's ordinary discharge. Surveys for small works, suggested by the Revenue Officers, have been made in various parts of the Collectorate.

Manar Tank, Girna Valley.

193. SURAT.—With the sanction of the Government of India, the foundations for the weir, and the buildings for the shelter of the establishment at the head works, were commenced in the hot weather of 1872. The buildings have been completed, and some progress has been made with the excavation for foundation. Further progress of the work is suspended, pending sanction to the revised estimate already submitted. Revised estimate, Rs. 40,73,377; expenditure, 25,220.

Taptee Canal.

194. AHMEDABAD.—This work has made fair progress, and will be opened during the approaching monsoon. It consists of a weir across the Hathmati River situated just above the village of Ahmednuggur, in the Edur Territory, with a canal 21 miles long, commanding an area of 34,068 acres. The weir and head works have been completed, and the excavation of the canal completed up to 18¼ miles.

Hathmati Canal.

A bridge is being built on top of the weir for the Edur State; they, of course, paying its cost, and the Executive Engineer superintending its construction, in consideration of the Durbar having agreed to the construction of the work. Estimated cost (exclusive of bridge) Rs. 4,29,741; expenditure, Rs. 2,28,760.

195. SURVEYS.—The completion of the plans, and estimates, for the canal on the right bank is being proceeded with, Government having decided on that in preference to the one on the left bank.

Sabarmuti Canal.

196. Surveys have been made with a view of storing flood water near the sources of the Khari River, and thereby saving the country from floods, and providing the means of extending the irrigation on the lower Khari, where 12,000 acres of rice are already irrigated.

The maintenance and repair of the Khari works has been attended to by the Executive Engineer, a subordinate from his establishment being in charge of the sluices and the distribution.

197. River, and rain gauges, were maintained on the principal rivers in each division.

198. KURRACHEE COLLECTORATE.—On the 18th of June, the dredge commenced work on a shoal about a mile on the Munchur side of the draw-bridge across the Arul, and was at work upon this shoal until the 24th of July, the water having on that date commenced to drain out of the Munchur into the river. Owing to the unprecedentedly heavy rains which completely filled the lake, the dredge was removed to a shoal at the mouth of the Arul, where there was only 2½ to 3 feet of water, and it remained at work at the mouth until the beginning of January. The result of the working of the dredge was not so satisfactory as had been anticipated, owing to the punts being found unsuitable for the work; they are simple floating tanks, and, owing to the scarcity of labour, the greatest difficulty is found in emptying them. Towards the end of September, the rain floods which came down from the hills of Kutchee, north and north-west of Jacobabad, and swept down the low ground between the Hala range and the river, commenced to drain into the Munchur Lake, and raised its water level to about 2 feet above the highest level of the inundation. In spite of this unusually large volume of water flowing into the lake however, the gauge readings on the 31st of March were lower by 1·80 feet than in 1869, and as low as the readings for the last 3 years. The water is still flowing out of the lake into the river. It is to be feared that, as long as the river keeps to its present course, and runs six or seven miles away from the mouth of the Arul, the dredge will never be able to do much towards the drainage of the lake; the whole of the fall, which ought to be available for the Arul alone, is expended on the six or seven miles of additional channel between the mouth of the Arul and the river. Estimated amount, Rs. 56,406; allotment, Rs. 11,100; expenditure, Rs. 7,160: total expenditure, Rs. 17,954.

Munchur Lake Drainage.

199. There are 3 sluices on the Baid and Dingree branches, and at Diam Meeanee. They have been built to obviate the necessity for constructing earthen bunds across the Narra during the cold season, to allow of the rubbee crops being irrigated by natural flow. The earthen bunds were never properly removed before the inundation, and they caused so much damage to the bank, so much silting up of the bed, and such increased expenditure on clearance, that their construction was prohibited, and masonry sluices had to be built in their place. All three sluices will be completed before the approaching inundation. Estimated amount and allotment, Rs. 23,892; expenditure, Rs. 15,598. The delay in completing these works before the close of the official year has arisenentirely from the necessity for allowing the Narra water to flow to a sufficiently late date to ensure safety to the rubbee crops.

Sluices on the Western Narra.

200. The progress of the work was greatly delayed on account of the sum allotted at the commencement of the season being insufficient. An extra grant was made by the Government of India late in the season, but the year was too much advanced to allow of its all being expended to the best advantage. The allotment for the year was Rs. 72,680; the expenditure, Rs. 88,112.

Maintenance of Canals.

201. A survey has been completed for the improvement of the Noorwah, a branch of the Western Narra, in the Sehwan Talooka. Surveys have also been completed for the new mouths to the Buggar and Meerwah Kullan. Survey plans and estimates have been completed for an embankment to shut out

Surveys.

the river floods at Shah Goreea in Shahbunder; and surveys and levels have been commenced, and partially completed, for embankments along the Oochta river, and for an embankment to shut out the Goonganee flood.

Improvements to Canals in Shadadpoor Talooka.

202. HYDRABAD: RORHI CANAL DIVISION.—This scheme was sanctioned, and an allotment of funds made in 1871, but sanction was received too late to be of much use, and but little was spent, except on the lesser Maruk and Shahwah. The work carried out during the past year was the improvements to the Gunjbahr, Bijarwah, Chakurwah, Aliwah, Rajwah, and Paroowah, and the new cut from the Aliwah to the Alibahr Kuchheree. Those portions of the work, which were carried out in 1871, fully answered all expectations, and there is this season an increased demand for waste land on the several canals, especially on the Bijarwah, on which the expenditure has been most complete, which will lead to a large increase of revenue, and give an ample return on the outlay. Estimated amount, Rs. 1,81,917; expenditure, Rs. 58,088; total expenditure, Rs, 73,058.

Diversion of Surfraz and Khesanowah.

203. Both these canals, which for some miles run close together, have been for years encroached upon by an enormous sand drift several miles in length; this has at last come so near, and become so overwhelming, that, for the last few years, the supply of water has been almost cut off during the inundation, and the revenue of the canals has dwindled down to a mere nominal sum, which would have disappeared altogether in a few more years had not some measures been taken for restoring the canals. The length of diversion of the Surfraz is about 12 miles; and of the Khesano about 4 miles. Most satisfactory progress has been made, and the work will be ready by the middle of May, or by the time the river rises sufficiently to enter the canals. The ground through which the diversions run, is of a very indifferent nature; the whole district nearly being mostly pure sand, covered over with a layer, more or less, that of fine clay possessing little tenacity. Veins of sand alternate with veins of clay, in a curious manner, and, when a surface is once exposed, the sand is carried away by the wind, and the soil falls down. Wherever sand has been met with in the excavation, the slopes have been protected with grass matting, but it is much to be feared that for a year, or two, the new work will require much watching to prevent the canals being literally blown away. There will be a considerable increase of cultivation this year. Estimated amount, Rs. 1,04,664; allotment, Rs. 70,000; expenditure, Rs. 70,462.

Maintenance of Canals.

204. In the Northern or Nowshera Sub-division, the canals are generally in good order. Heavy floods swept across the Chutlo, and Nusrut, during the height of inundation, doing a good deal of injury to the banks of the canals, but very little actual clearance was required. The new head cut last season (1871) to the Fatimawah, ex Nusrut, answered admirably, and the cost of clearance in that canal has been reduced from Rs. 1,400 to Rs. 400: there is every reason to hope that this will prove an annual saving. The head of the Nowlukkee, which was opened in 1868-69, has been abandoned, owing to changes in the river; but this has proved a source of economy, as the old head is now in excellent order, requiring no repairs. A new head to the Dumbrahwah has been cut at a cost of Rs. 3,000, as the old head was completely filled up; and the old head to the Dadwah had to be re-opened, as the dundh which fed the mouth cut in 1868-69 had entirely silted up: there is a fine dundh now at the old head, and the change will be most advantageous. The clearances in this sub-division have been completed in a most satisfactory manner.

205. The clearances in the Southern or Hala Sub-division, have been rather beyond the average, chiefly in the Hala and Shadadpoor Talookas; but a fair comparison cannot be made, as the rates for clearance have increased within the last few years. They have been well carried out, and, on the whole, economically. The total amount spent on clearances in the division was Rs. 88,293.

Tails of the Goonee.

206. FULLAILEE DIVISION.—The only original work of importance which has been carried out in this Division, is the improvement to certain canals at the tail of the Goonee. The work consists of, 1*st*, a new head to the Sanhi Goonee, 9,160 feet long; the high spoil banks of the old mouth precluded any widening on account of the expense, and an enlarged channel was necessary to afford an efficient escape for the flood waters of the Goonee; the lower portion of the canal is to be straightened by two new cuts, 6,022 and 5,524 feet long; the section of the canal is to be increased throughout, and to be embanked where necessary; 2*nd*, two new heads to the Ghar Loharee and Ghar Kuddun from the Sanhi Goonee, 5,522 and 4,140 feet long, respectively, the upper portions of these canals (which take off above the mouth of the Sanhi Goonee) 5 and 7 miles long, respectively, being abandoned: 3*rd*, regulating sluices to the four branches of the Sanhi Goonee, *viz.*, the Ghar Loharee, Ghar Kuddun, Sherewah and Meerwah, the two former consisting of two openings of 6 feet each, and the two latter of one opening each of the same dimensions: 4*th*, one large combined regulating sluice for the three tails of the Goonee

viz., the Sanhi Goonee, Sherewah and Aliwah, at the point where the new head takes off, and where the Goonee breaks up into three. During the past season, the new mouths to the Sanhi Goonee, Ghar Loharee, and Ghar Kuddun, and the clearance of the Sanhi Goonee as far as the new Ghar Kuddun mouth, have been taken in hand. They will probably be completed before the approaching inundation, provided the river does not rise in May to a sufficient height to flood the Fullailee. Estimated amount, Rs. 42,442 ; allotment, Rs. 15,700; expenditure, Rs. 11,467.

207. The Manuk and Shadee sluices have been completed, the expenditure during the year being Rs. 3,166, and the total expenditure, Rs. 13,166, out of the estimated amount of Rs. 13,868.

Maintenance of Canals.

208. The clearances during the past year have been carried out in a more satisfactory and effectual manner than usual, partly owing to the increased assignment made, and partly owing to closer supervision of the work. The clearances in the Fullailee are very costly, but by skill and attention they may be much reduced, with profit both to Government and to the people. The total amount expended on canal maintenance was Rs. 1,12,299.

Improvements to the Kukkolewah.

209. SHIKARPOOR COLLECTORATE : GHAR DIVISION.—This is the only original work of importance which has been carried out during the year. It was undertaken in order to prevent breaches in the Kukkole and Rajwah (its tail), and to increase and regulate the supply of water in the latter. The works comprise clearance of both Kukkole and Rajwah to a regular width and proper gradient, embankments and an outlet at the tail to the latter canal, and sluices to all the Kurriahs on it. The clearance has been completed throughout; the bunds and sluices are in progress. Estimated amount, Rs. 14,440 ; allotment, Rs. 5,000 ; expenditure, Rs. 4,790.

Maintenance of Canals.

210. In the Ghar Division, where the canals nearly all flow at a high level, the chief expenditure is on Abkalani and repairs of breaches. The expenditure is very small, and the canals are in very good order. The expenditure on Abkalani was Rs. 10,339, and on ordinary clearances and maintenance, Rs. 20,412.

Begaree and Seer Canals.

211. BEGAREE DIVISION.—The work done during the year comprised the widening of the Begaree from the 37th to the 45th, from the 63rd to the 68th, and partial widening in the 30th, 31st, and 32nd miles ; the construction of two chowkees ; the completion of the embankment across the Seer Gharee on the Seer canal, the excavation of the 9th mile Rajbuha on the left bank ; the completion of the 1st and 4th mile Rajbuhas, and the construction of one Rajbuha head and two road culverts. The Sind Hollow floods, which leave the river Indus principally between Kusmore and Kharee, did a great deal of damage to the southern bank of the Begaree, causing innumerable breaches, which it was impossible to close. These floods, which were higher than have been known within the memory of man, swept across all the country to the north of the Begaree, breaching the Sonewah, and other branches in all directions; burst across the Noorwah, passing both to the north and south of Jacobabad, and seriously endangering that station, and finally joined the rain floods from the Kutchee Hills, which were also higher than have occurred for 25 years near Khari Garhi at the head of the Seer canal. The combined waters of the rain and river floods then swept across the Seer canal, completely obliterating it for 1,800 feet, where it runs in embankment on the 9th mile across the Seer Gharee, and breaching it in every furlong from the 9th to the 15th mile; and they finally flowed south between the hills and the river down to the Munchur Lake at Sehwan, sweeping away in their course between 200 and 300 villages. The breaches in the southern bank of the Begaree have been repaired, and a new embankment has been made across the Seer Ghari ; but it is very doubtful whether this embankment will ever stand in heavy rains, and whether it is not waste of money to extend the Seer canal beyond the 15th mile where it at present ends. The total length of the Seer canal is 33 miles, and from the 5th mile to the tail it runs through the whole network of drainage channels from the hills : the whole course of the canal, in fact, lies in the low ground, which is flooded when heavy rain falls in the Kutchee Hills, and no amount of embanking will keep the water off. The extension of the Seer canal has been stopped, at all events, for the present, and no further expenditure will be incurred upon it below the 9th mile regulating bridge. Owing to the work being stopped, the allotment for the year was not utilized. Estimated amount, Rs. 4,31,315 ; allotment, Rs. 75,000 ; expenditure, Rs. 37,095 ; total expenditure, Rs. 2,89,897.

Maintenance of Canals.

212. Owing to the heavy floods on the left bank above Rorhi, the clearances in the Begaree Division have been rather heavier than usual. The work carried out was simple clearance, and requires no special remark. Amount expended, Rs. 34,749.

213. The new Rahooja mouth was completed by the middle of June, with the exception of a slight amount of excavation and stone pitching in the bed just below the falls; the water from the old mouth (leakage through the gates, and percolation through the rock in the first mile) broke into the excavation, and stopped the work. The new mouth gave an excellent supply of water, and was under perfect control; the regulating falls, 1¾ miles below the head regulator, acted admirably, and the velocity was so easily maintained at the proper rate, that the bed and banks are as clean as the day they were cut. Unfortunately, the Rahooja dundh, from which the new mouth derives its supply, is so silted up that the full supply fails with 7 feet on the Bukkur gauge, and there was great fear at one time that one of the old mouths of the Ghar Sind, the Fazilbahr, would have had to be opened to keep up the supply at the tail of the canal. The river, fortunately however, kept up until the crops were all safe. The excavation in several of the miles between the 16th and 24th has not been carried to its proper depth, and there has been a little silting up in those miles in consequence. The clearance of this, and the completion of the Rahooja mouth, will be effected before the approaching inundation. The cost of clearance and maintenance has been Rs. 13,498. Estimated amount, Rs. 7,98,689; allotment, Rs. 60,000; expenditure, Rs. 37,721; total expenditure, Rs. 7,97,832. A revised estimate, including all the works necessary for the proper completion of this work, is under preparation, and will be submitted in July next.

Sakkhar Canal.

214. This work was completed according to the original and sanctioned design and estimate in June last. During the inundation, three large breaches occurred, which it was found impossible to close; and could they have been closed, it was very evident that the water would simply have risen until it topped the crest of the bund. There was evidently some mistake made in the readings of the flood levels on which the original bund was designed, as the highest flood level was supposed to be 3 feet below the crest; whereas, with all three breaches running, the flood level of the past inundation was only 12 to 15 inches below the crest. A fresh estimate for raising and strengthening the bund, and for building masonry sluices to the canals crossed, which had been omitted in the original one, was submitted and sanctioned. The work was commenced in February, and good progress has been made. The heaviest portion in the 14th to the 19th miles has been completed, and the rest will be finished before the inundation. Original estimate, Rs. 37,864; expenditure, Rs. 37,707: amount of revised or supplementary estimate, Rs. 26,034; allotment, Rs. 10,000; expenditure, Rs. 9,790.

Jullee Bund.

215. JACOBABAD.—Nothing beyond ordinary clearance and repairs to canals has been carried out this year. The clearances were heavy owing to the severe floods which swept across the country and all the branches on the right bank of the Begaree. They were executed at a cost of Rs. 27,397.

216. This canal, which is to leave the river at Kusmore, following the line of the Maksudawah for 30 miles, is to run past Soj and Sunree, and into the territory of the Khan of Khelat. It was sanctioned in October last, and an assignment of two lakhs of rupees was made for expenditure during the year. The impossibility of spending so large an amount was, however, seen from the first by those on the spot. Work was commenced towards the end of February last; the Muksudawah was enlarged and deepened, and brought to a proper gradient. The muster of labourers in the middle of March was about 1,500, but this number decreased considerably before the end of the month, the men going off to the rubbee harvest, the area of land under crop being exceptionally large on account of the quantity of new land flooded by the unusually high rain and river floods of the past year. About one-third of the total quantity of excavation contracted for, to be done before the approaching inundation, has been completed, but payment for the same was not made in the year under report. The estimated amount is Rs. 9,57,388.

Desert Canal.

217. THUR AND PARKUR.—The excavation of the new mouth to the canal through the Mukkee dundh, to connect the head of the canal with the deep channel of the Khundwarree Sang, has been completed. Its effect on the supply of the canal has been most beneficial both in increasing the discharge materially and preventing the growth of weeds, which may now be said hardly to exist in the canal, except at the tail, and in some of the branches where they are of not much consequence. The other works executed during the year were masonry flooring to bridges, masonry ghauts, chowkees, and masonry heads to kurriahs. The masonry flooring to bridges has been completed as far as the 65th mile of the canal, and materials have been collected for the remaining portion. One 1st class chowkee at the 13th mile, and two 2nd class chowkees at the 37th and 45th miles, have been completed; materials have been collected for a 1st class chowkee at the 79th mile. The masonry heads to 15 kurriahs have been completed, and the materials for 15 more have been collected. Estimated amount (revised estimate) Rs. 7,14,452; allotment, Rs. 75,000; expenditure, Rs. 48,887; total expenditure, Rs. 6,77,468.

Mitrow Canal.

218. All masonry heads have been completed; one 1st class chowkee at the tail of the Umarcote branch has been completed, and another 1st class chowkee at the head of the canal has been completed up to roof level. The only works remaining to complete the canal are those included in the revised estimate which has been submitted for sanction. Estimated amount (sanctioned estimate) Rs. 2,10,126; allotment, Rs. 45,000; expenditure, Rs. 15,508; total expenditure, Rs. 2,62,936.

Thur Canal.

219. The channel at Ding has been cut to the full width. The only portion remaining of this work to be done is about 2 miles of channel above Kippra, but it cannot be done on account of the water, and it does not, moreover, appear to be necessary. Amount of sanctioned estimate, Rs. 2,07,969; allotment, Rs. 10,000; expenditure, Rs. 6,349; total expenditure, Rs. 1,95,543.

Cuts in the bed of the Narra.

220. Three masonry heads have been completed during the year, and materials have been collected for a fourth, which will be completed before the approaching inundation. Estimate, Rs. 38,240; allotment, Rs. 10,200; expenditure, Rs. 9,119; total expenditure, Rs. 13,215.

Masonry heads to Kurriahs on right bank of Narra.

221. This is for clearance of the trees and jungle in the bed of the Narra below the weir at the head of the Thur canal, which impedes the free flow of the water. A width of 100 feet and length of 22 miles was thoroughly cleared before the arrival of the water in July last: a bund was then put across the Narra some 10 miles further south, and the work carried on there, a width of 200 feet being cleared for a length of nearly 3 miles. Estimate, Rs. 6,300; expenditure, Rs. 2,511.

Clearance of Jungle in the Narra.

222. The Dimwah has been extended for a distance of nearly 4 miles, which is probably about as far as it is advisable to go. Estimate, Rs. 19,702; expenditure, Rs. 5,845; total expenditure, Rs. 13,502.

223. Experiments in rice cultivation were carried out on the Thur and Mitrow canals at a cost of Rs. 1,388.

224. What little remained of the clearance of the canal and its branches at the end of 1871-72 was completed. The clearances of 1872-73 were put in hand early, and are nearly completed. The expenditure on clearance has been Rs. 4,862 for 1872-73, and Rs. 4,369 for 1873-74; total, Rs. 9,231. During the past season the maximum supply admitted into the canal was 1,700 cubic feet per second, about the same as the year before. Owing to the increased velocity due to the new month, the proper depth was maintained in a much greater length of the canal than heretofore. Serious breaches occurred in the Jullub bund owing to the unusually heavy flood, and a great deal of damage was done both to the canal and to the crops. The outhouses to the chowkee at the 13th mile were much damaged; those at the 26th mile were washed down, and the bungalow was seriously damaged: a breach occurred in the 34th mile of the canal, and the flood water crossed the canal, and joined the water of the Narra at Samara. The height of water in the Mukkee was 14·50 feet on the upper bridge gauge, or 2½ feet higher than it has ever yet been. The flood probably discharged nearly 60,000 cubic feet per second, and was the heaviest that has been known since 1826. The cost of maintenance was heavy, being Rs. 15,013.

Clearance and Maintenance, Mitrow Canal.

225. No accident occurred to any of the embankments on the Narra, as a good many of those on the left bank were purposely cut, in order to allow the flood water to escape into the dundhs among the sand hills, and thus relieve the pressure against those on the right bank. As the whole country was under water, the embankments were not of much use. Expenditure, Rs. 5,941.

Maintenance of Narra embankments.

226. The maximum supply admitted during the year was 1,046 cubic feet per second. The flood from the Narra swept over the Thur Canal from the 10th mile to the tail, flowing right over the top of the canal banks; but, with the exception of a few breaches, no damage was done to any of the works. The amount spent on clearance was Rs. 3,439, and on maintenance, Rs. 3,739.

Clearance and Maintenance, Thur Canal.

227. The tails of the Sind canals, which enter the Thur and Parkur Districts at the Pooran, were cleared and maintained at a cost of Rs. 3,292.

IV.—COMMUNICATIONS.

I.—ROADS.

228. CANARA.—Metal has been laid on this road so as to bring it generally up to section. Expended in the year, Rs. 54,223; total outlay, Rs. 12,47,920, against an estimate of Rs. 12,67,330.

Arbyle Ghaut Road.

Hullial to Dharwar Frontier.

229. The road has been completed, and opened to traffic early in the year. Expenditure, Rs. 8,033.

Hullial to Belgaum Frontier.

230. The length of this road is about 5¼ miles. The embankment and moorumming on the line have been completed; also a few drains. Estimate, Rs. 42,088; expended, Rs. 23,811.

231. DHARWAR.—The moorumming of the road from Unmode, to the Goa Frontier, has been nearly completed. Estimate, Rs. 6,379; expended, Rs. 5,859.

232. KULLADGHEE.—A cleared track, 12 miles in length, has been completed from Indee to Munoor, at the cost of the Local Funds. Expenditure, Rs. 981.

233. BELGAUM.—The last bridge on this line has been finished, and protection mounds have been half finished. The breast walls, and drains, have been built, and metal for 5 miles has been prepared in the year. Estimate, Rs. 14,52,579; expenditure, Rs. 13,64,446.

Parpoolee Ghaut Road.

Neepani to Boregaum (Local Funds).

234. This road, which is about 15 miles in length, is in progress. Estimate, Rs. 5,007; expenditure, Rs. 2,997.

235. The following roads, chargeable to Local Funds, have been undertaken in the year:—

From Chundghur to Sheergaum .....Estimate, Rs. 2,800; expended, Rs. 804.
„ Bylhongul to Soundattee ..... ditto „ 16,317; ditto „ 5,330.
„ Ditto to Kittoor..... ditto „ 11,619; ditto „ 4,946.

236. KOLAPOOR.—The work of moorumming portions of this road, the estimated cost of which is Rs. 12,175, has been completed. Expenditure, Rs. 8,982. The drainage and bridging of the road have also been completed. Estimate, Rs. 61,101; expenditure, Rs. 50,053.

Gybee Khind Road (State Funds).

Kolapoor to Punalla (State Funds).

237. The improvements to this road have been completed at a cost of Rs. 6,688.

Kolapoor and Meeruj Road (State Funds).

238. The improvements to the first section of this road are nearly completed. Estimate Rs. 16,192; expenditure, Rs. 15,895. The further improvements, estimated at Rs. 8,799, have been commenced.

Kolapoor to Ambah Ghaut (State Funds).

239. The work of improving the second section of this road is nearly completed. Estimated cost, Rs. 37,006; expenditure, Rs. 23,538.

Road Azra to Gudingluz (State Funds).

240. The construction of this road has been commenced; six miles of earth work, and three miles of drains and masonry work, are in progress. Estimate, Rs. 68,689.

Meeruj to Beejapoor (State Funds).

241. The improvement of this road within the limits of the village of Kempwar has been completed at a cost of Rs. 8,207. The improvements to the line within the limits of the village of Molla have cost Rs. 3,862.

Arjoonwar to Kooroondar (State Funds).

242. The construction of this road has been in progress. Estimate, Rs. 7,872; expended, Rs. 1,098.

Phonda Ghaut to Deogurh.

243. RUTNAGHERRY.—Some embankment, with pitching to the side slopes, has been done to this road. Estimate, Rs. 36,990; expended, Rs. 36,423.

Khed to Poladpoor.

244. This road has been commenced as a famine relief work. The parapets to walls, and other minor works, have been executed. Estimate, Rs. 29,438; expenditure to date, Rs. 9,938.

Rutnagherry to Chiploon.

245. Eleven drains and culverts have been completed, and a bridge of two 12 feet spans has been built between Sungemeshwur and Wandree. Estimate, Rs. 1,01,085; expenditure to close of year, Rs. 20,630.

Dabholi to Machal Hill (Local Funds.)

246. The path which leads from the village of Machal has been completed to the foot of the hill. Estimate, Rs. 3,679; expenditure, Rs. 2,983.

Malwan to Sookulwa (Local Funds).

247. Some cutting, and retaining walls, have been executed to this road at a cost of Rs. 6,789.

248. SATTARA.—The laying on of metal to this line of road has been in progress in the year; the expenditure on the work has been Rs. 88,433 up to date, against an estimate of Rs. 1,28,829.

Kurar to Koombharli.

249. The greater portion of the heavy rock cutting, and retaining walls of this road have been finished. Estimate, Rs. 4,01,481; expenditure, Rs. 1,81,368.

Pertabghur Ghaut Road.

250. The work on this line has approached the town of Waee, through which it has to be carried, but its progress has been arrested pending the settlement of the amount of compensation to be paid to the different house owners whose property will be demolished. Expended up to date, Rs. 1,26,702, out of an estimate of Rs. 1,38,808.

Soorool to Paunchgunny.

Sattara to Poona (Local Funds).

251. The portion of this road, between the 19 and 21 miles, has been improved at a cost of Rs. 8,141.

Sattara and Shendara Road (Local Funds).

252. The cross drainage of this road was completed in the year at a cost of Rs. 11,031.

Sattara and Tasgaum Road (Local Funds).

253. Sixty-two slab drains, and eight culverts, have been under construction on this line, in order to complete its cross drainage. Estimate, Rs. 20,815; expended to close of year, Rs. 4,978.

Kurar and Tasgaum Road (Local Funds).

254. The project provides for culverts and drains to 9 nullahs, where the dip is considerable, and where they are most required, and for raising the abutment of one culvert of insufficient water way. Estimate, Rs. 12,328; expended Rs. 6,109.

Barsee road to Punderpoor (Local Funds).

255. SHOLAPOOR.—This road has been in progress; seventeen drains have been completed in the year, and fourteen more nearly so. Estimate, Rs. 1,31,676; expenditure, Rs. 69,518.

Ghore bridge approaches.

256. POONA.—Four culverts of 10 feet span, and six drains, have been built on this line of road; the total outlay has been Rs. 25,814, against an estimate of Rs. 49,506.

Poona to Pour (Local Funds).

257. This track has been completed to its twelfth mile, at a cost of Rs. 8,971.

Track over Malsej Ghaut (Local Funds).

258. Six miles of Ghaut track have been formed at a cost of Rs. 4,955.

Jowar to Dhanoo (State Funds).

259. NORTHERN KONKAN.—The two small Ghauts, at Mhet and Khansutwuddy, have been in progress, and the first portion of each ghaut has been completed. Estimate, Rs. 83,672; expenditure, Rs. 69,160.

Challisgaum to Kunhur (Local Funds).

260. KHANDEISH.—The reason which led to the construction of this road, namely, the presence of famine in the district, having passed away, only a small outlay has been incurred in the year in completing the unfinished portions of the past season's work, and in widening the road at the turns on the Ghaut. Total expenditure to date, Rs. 2,42,158.

Kujgaum to Parolla (Local Funds).

261. During the year a considerable number of small culverts have been made; and moorum has been spread over 8 miles, in addition to which, the embankments which were damaged by the floods in September 1872 have been repaired. Estimate, Rs. 1,84,260; expenditure, Rs. 1,00,895.

Dhoolia to Pimpulnair (Local Funds).

262. Two additional miles of embankment have been constructed in the year, and moorum has been spread on nearly the whole of the first 30 miles from Dhoolia. No culverts, or bridges, have as yet been made. Estimate, Rs. 2,39,632; outlay, Rs. 75,692.

Raveree Station to the Town (Local Funds).

263. This road, of 1 mile and 1,187 yards in length, has been commenced, and an expenditure of Rs. 4,906 has been incurred on it out of an estimate of Rs. 10,279.

264. SURAT AND BROACH.—The railway feeder road from Sayen to Oolpar, has been completed at a cost of Rs. 81,086, of which sum two-thirds are debited to Local Funds; and that from Oolpar to Randier, has been completed at a cost of Rs. 86,411, a similar proportion being charged to Local Funds.

Keem to Turkesur.

265. This road has been in rapid progress; expenditure, Rs. 66,440, out of an estimate of Rs. 1,17,258.

266. Fourteen culverts, and drains, of various sizes, have been completed in the year, and others are in progress; the road surface has been rolled for two miles from Unklesur, and metal has been collected for nearly five miles more than in the preceding year. Estimate, Rs. 1,65,720; expenditure, Rs. 1,35,940.

Unklesur to Hansote.

267. The construction of this road is in progress; earthworks have been completed from Broach to Tuncha, 13 miles. Expenditure, Rs. 58,102.

Broach to Ahmode (Local Funds).

268. Two culverts, 6 feet span, two vents, and one culvert, five feet span, one vent, have been completed in the year. Estimate, Rs. 30,647; expended, Rs. 27,202.

Kalliawaree to Sejwar (Local Funds).

269. Stone metal has been broken and carted to the road side; nearly two miles of gradients have been improved. Estimate, Rs. 42,490; expenditure, Rs. 13,920.

Billeemora to Chicklee (Local Funds).

270. KAIRA.—The earthwork (94 lacs of cubic feet) has been completed, also the Ghora Khal Masonry bridge, three spans of 50 feet, ten small bridges giving an aggregate waterway of 345 feet; twenty-one culverts and forty-five drains. Estimate, Rs. 4,33,370; expended, Rs. 3,36,574.

Godra to Dohud.

271. This road may be divided into four sections as follows:—

1*st.*	From	Anund to Simluj.
2*nd.*	„	Simluj to Pallee.
3*rd.*	„	Pallee to Godra.
4*th.*	„	Godra to Dohud.

Thasra to Pallee (Local Funds).

Nothing has been done on the first section in the year. On the second, the whole of the culverts and drains have been either completed, or in progress. The estimated cost of the aggregate work comes to Rs. 1,41,886; expenditure to close of year, Rs. 68,845.

272. This work has been completed at a cost of Rs. 12,142.

Kalole to Jambooghora (Local Funds).

273. The survey of this branch line has been undertaken at the joint expense of Provincial and Local Funds. The work has been completed at a cost of Rs. 4,001.

Anund to Dakore.

II.—BRIDGES.

274. CANARA. This Bridge, on the Arbyle ghaut road, consists of a 30 feet span with a trussed timber superstructure. The foundations have been got in. Estimate, Rs. 7,858; spent Rs. 2,548.

Bridge near Ugsoor.

275. A masonry bridge, of a single span of 25 feet, has been completed at a cost of Rs. 6,011.

Hoodyalcope Bridge.

276. The abutments, and piers, have been raised to springing level, and nearly all the materials for the arches have been prepared. Outlay to close of year, Rs. 13,793, against an Estimate of Rs. 34,605.

Tuttihalla Bridge (Local Funds).

277. This bridge has been nearly completed. Estimate, Rs. 4,041; expended, Rs. 3,875.

Bridge at Sanicotta (Local Funds).

278. DHARWAR.—The construction of this bridge has been suspended pending the approval of a revised design. Materials at a cost of Rs. 11,045 have been collected.

Shunwarcope Bridge.

279. The Godhulley Bridge has been completed. Expenditure, Rs. 9,521.

280. The foundations have been commenced, and materials for the superstructure have been collected. Estimate, Rs. 17,935; expended, Rs. 7,133.

Lingunmutt Bridge.

281. The construction of this bridge approached completion at the close of the year. Estimate, Rs. 19,415; expended, Rs. 17,530.

Nalowdee Bridge.

282. This bridge is on screw piles; the work was nearly completed. Estimate, Rs. 16,689; expended, Rs. 14,429.

Budrapoor Bridge.

283. KULLADGHEE.—Two masonry bridges, and several dips, have been in progress. One bridge, and the dips, have been completed, and the arches of the other bridge have been turned. Estimate, Rs. 19,794; expended, Rs. 18,305.

Bridges, &c., east of Kulladghee.

284. BELGAUM.—This bridge is of five arches, each of 27 feet span. The work is in progress. Estimate, Rs. 23,296; expended, Rs. 2902.

Gotoor Bridge.

285. A bridge of one span, of 25 feet, has been completed, with the exception of the parapet walls. Estimate, Rs. 6,872; expended, Rs. 4,740.

Marihal Bridge.

286. KOLAPOOR.—The iron work has been conveyed to the bridge site; the bed plates of the girders have been built into the piers, and the masonry work is nearly all ready. The 60 feet arch over Nullah No. 17 on the mail road deviation, has been completed, and the deviation only needs its surface to be finished. Estimate, Rs. 2,77,451; expended, Rs. 2,74,055.

Punchgunga Bridge.

287. RUTNAGHERRY.—Fourteen culverts, and drains, of sizes, have been completed in the year. A 30 feet bridge has been built up to springing, and the arch partly done. The superstructure of a 15 feet bridge has been commenced. Estimate, Rs. 28,355; expended, Rs. 19,581.

Phonda Ghaut to Deoghur.

288. SATTARA.—During the year the remaining 6 girders, forming three bays 116 feet in length, were hoisted into position, the roadway formed, and the bridge completed, so as to be available for mail carts and light traffic. Estimate, Rs. 5,21,513; expended, Rs. 4,85,717.

Quoina Bridge.

289. The girders for 8 spans of 60 feet were placed in position, and a rough road-way made over them, by the commencement of the last monsoon, to prevent hinderance to traffic. The bridge has been completed at a cost of Rs. 1,32,654.

Sheerwul Bridge.

290. The bridge has been completed in the year. Total expenditure, Rs. 39,385.

Yenna Bridge (Local Funds).

291. AHMEDNUGGUR.—The Seena bridge has been completed at a cost of Rs. 86,017.

Seena Bridge.

292. This bridge has been completed in the year at a cost of Rs. 16,581.

Khara Nullah Bridge.

293. POONA—The bridge consists of eight segmental arches of 52½ feet span, with a third rise. The whole of the piers and the left abutment have been built to the springing line of the arches. The work has been carried on without interfering with the existing timber bridge, which occupies the same site as the one under construction. Estimate, Rs. 1,34,668; expenditure, Rs. 36,575.

Bridge across the Moota River.

294. KHANDEISH.—The bridge of 26 arches of 20 feet span each, near Malligaum, on the Bombay and Agra road, having been injured by the flood of September 1872, its restoration is being carried out. Estimate, Rs. 23,619; expended, Rs. 18,596.

Girna Bridge.

295. The restoration of the Moosun Bridge, on the same line of road, which was also injured by the same storm, is estimated to cost Rs. 11,204; expenditure to date, Rs. 4,940.

Moosun Bridge.

296. A third bridge, on the Bombay and Agra road, near Dhoolia, was also injured by the same storm, and its restoration is estimated to cost Rs. 21,009; expenditure, Rs. 10,417.

Panjur Bridge.

297. SURAT AND BROACH.—This bridge has been completed for Rs. 31,016.

Kurree Bridge (Local Funds).

298. The Tuncha bridge has been completed at a cost of Rs. 16,712. *Local Funds.*

299. KAIRA.—All the bridges, and culverts, have been finished except one over the Toowa river. Estimate, Rs. 42,577; expenditure, Rs. 31,208.

Godra to Pallee (Local Funds).

300. The iron work of this bridge has been put up and the work completed in the year for Rs. 49,515.

Khurd Bridge (Local Funds).

301. The construction of this bridge, has been completed to the springing of arches; Estimate, Rs. 21,521; expenditure, Rs. 19,252.

Dusulwara Bridge (Local Funds).

302. This bridge is on the Godra and Dohud road, in the territory of His Highness the Rajah of Barriah, and is chargeable to the Barriah State funds. It consists of 4 spans of 60 feet each, with the roadway on wrought iron girders. Piers, and abutments, of brick and lime masonry. Estimate, Rs. 39,874; expenditure, Rs. 5,996.

Hurrup Bridge (State Funds).

303. KURRACHEE.—The bridge is constructed across the Narra, at Kamal Khan, and is of 2 spans each, 31 feet, crossed by plate iron girders, with a wooden planked road-way. Half the superstucture has been finished. Estimate, Rs. 9,081; expenditure, Rs 6,842.

Narra Bridge (Local Funds).

304. This is a masonry bridge of 6 openings of 25 feet span. Foundations nearly completed. Estimate, Rs. 17,857; expenditure, Rs. 15,344.

Pinjaree Bridge (Local Funds).

IV.—ACCOMMODATION FOR TRAVELLERS.

305. SOUTHERN DIVISION—Dhurumsalas have been constructed, or improved, at Nandghur, Satihal, Sunkeshwar, and Neepani, in the Belgaum Collectorate, for Rs. 9,024. In the Rutnagherry Collectorate, a Dhurumsala is in progress at Malwan; estimate, Rs. 2,984. A Dhurumsala has been completed at Kurar (in Sattara) for Rs. 10,535.

Local Funds.

306. NORTHERN DIVISION—The wells in the Jowar Territory have been carried out. The two Mahal and Puckal wells have been nearly completed; expended Rs. 2,567. In the Kaira districts a Dhurumsala has been completed at Thasra for Rs. 8,702; others are in progress at Naika, Lussondra, Shiholdee, and Wassud.

Local Funds.

V.—MISCELLANEOUS PUBLIC IMPROVEMENTS.

I.—MUNICIPAL.

307. KOLAPOOR—The works for the water supply for Ichulkurrunjee are in progress. Expended to close of year, Rs. 61,372. The water supply for Kagul has been completed, at a cost of Rs. 30,678.

Water Supply (State Funds).

308. SHOLAPOOR.—The laying of the pipes for the distribution in the town was the principal work in progress during the year. The work has since been completed, and the water delivered in Pandherpoor. Estimated cost, Rs. 1,61,536; expenditure, Rs. 1,80,184.

Pandherpoor water supply.

309. Surveys for a scheme of drainage in connection with the water supply works have been undertaken by the Irrigation Department, and plans and estimates for the first portion of the work submitted.

Sewage scheme for Pandherpoor.

310. A survey for increasing the area of the catchment basin draining into the water supply tank has also been undertaken and completed.

311. KAIRA.—Wells are under construction at Pahad Vania, and Bajeepoora, at an aggregate estimated cost of Rs. 6,700.

Water Supply (Local Funds).

II.—HARBOUR IMPROVEMENTS.

312. BOMBAY.—The only filling done during the year was 1,140 brass, brought by the Government Flotilla from Elephanta, and deposited at the Musjid and Elphinstone Bunders, for levelling and building plots. The cost has been about Rs. 3 per brass of 100 cub. feet.

Elphinstone Estate Reclamation.

313. Several additions, and alterations, have been made to this Bunder, to adapt it for the purposes of a dutiable wharf. A new export dutiable wharf, 455 feet long, and 140 feet wide, has been formed on the south of the bunder. It has a gateway at each end, and a shed and garbling warehouses have been built on it. A pathway, 20 feet wide, has been formed from the outer landing stair, and along the south side of the bunder, to where it joins the new road through the centre of the bunder. The carriage way of the date bazaar road has been widened to 27 feet, a free communication being thus open at all times between the Town, and the Harbour at Carnac Bunder. Estimate, Rs. 84,272; Expenditure up to close of year, Rs. 36,509.

Carnac Bunder.

314. The shed is being erected between the two slipways on this Bunder, and is 300 feet long and 45 feet wide; the sides are enclosed with corrugated iron, and the floor paved with khandkees. The shed is wholly of iron and cost Rs. 38,546; the cost of putting it up is estimated at R. 17,076, of which sum Rs. 8,606 have been spent in 1872-73.

Nicol Bunder Shed.

315. Two ranges of sheds are to be erected for the grain market, but only one has been in progress. It consists of 2 single span sheds, each 140 feet by 50 feet, and four double span sheds, each 140 feet by 100 feet.

Grain Sheds.

The street along the south of the shed has been widened. Estimate for the two ranges, Rs. 2,13,779; expended up to date, Rs. 27,294.

316. A road 80 feet wide (carriage way 56 feet, paths 12 feet) and drained, between the Elphinstone Estate and the Fort, is under construction. A length of 570 feet has been finished at the north end, and a temporary road has also been in progress on the surface of the reclamation (lower than the permanent formation level) in order to complete the communication in the year. Estimate, Rs. 1,15,448; expended up to date, Rs. 36,081.

Mody Bay: Frere Road extension.

317. Two short pieces of road have been completed; a new road is being formed at Boree Bunder, between the G. I. P. Railway shed, and the reclamation; it has a gradient of 1 in 30, and is in lieu of the old road, which had a gradient of 1 in 10. Estimate, Rs. 1,55,516, of which Rs. 32,899 have been expended to the close of the year.

Roads to the west of Frere Road extension.

318. The project is to complete reclamation as far as the north wall is built; to metal the bunder for a length of 1,200 feet; to fix moorings, and to fence in the bunder for Custom purposes. The metalling has been carried to a length of 700 feet by the full breadth of 250 feet; a drain, 1,220 feet long, and 3 feet 6 inches high, by 2 feet 3 inches wide, has been formed along the middle, and several smaller drains have also been constructed. A jungle fence, 9 feet high, with posts built in rubble masonry, has been erected for a length of 602 feet, and a double gate put up leading to Mody Bunder, north. Estimate, Rs. 78,240; expended, Rs. 33,495.

Preparing Mody Bay for traffic.

319. The stores on hand at the close of the year have been valued at Rs. 3,74,057; the issues amounted to Rs. 1,59,988; the cost of management having been Rs. 4,650, or nearly 3 per cent on the issues.

Stores.

320. The total outlay on capital account, exclusive of credits, has been about Rs. 2,88,518. and on revenue account, Rs. 27,642; total, Rs. 3,16,160. The cost of engineering was Rs. 78,346; or 25 per cent on the expenditure.

321. The reclamation of the Colaba foreshore has been in progress. The estimated cost, Rs. 45,600, is chargeable to the Esplanade Fee Fund. Expended in the year, Rs. 24,248.

Colaba Reclamation.

322. CANARA.—The work of raising, and extending, the slope along the sea-shore in front of the Judge's bungalow, and the Collector's Cutcherry, has been in progress. Estimate, Rs. 7,203; expenditure, Rs. 2,388.

Sea slope.

323. SURAT AND BROACH.—Materials have been collected at the site for the construction of a masonry wall in front of this bunder. Estimate, Rs. 30,675; expenditure, Rs. 7,614.

Dutch Bunder, Surat.

324. AHMEDABAD.—The repairs of the breaches in the wall have been in progress. Estimate, Rs. 13,000, divided between Provincial and Local Funds; expenditure to close of year, Rs. 9,745.

Sea Wall, Gogo.

325. The embankments have been repaired, a portion of the old bunder has been renewed, and a wooden pile bridge of 8 feet span has been constructed. Cost, Rs. 2,981.

Khoon Bunder (Local Funds).

326. KURRACHEE.—The progress of the Harbour Works during the year has been good, ample funds having been supplied for carrying on the works in hand.

Harbour Works.

327. As regards this large work, the last block of which was set on 22nd February 1873, the following main points are recorded. Block making was carried on as usual during the monsoon of 1872. The piece of breakwater completed, stood the monsoon of 1872 satisfactorily, though not without damage, chiefly by settlement of the fresh work. On 8th October the "Titan" was moved out again, and after repair of monsoon damages (with some interruptions from weather) building ahead was resumed on 1st November as in previous years, but progressed much more rapidly owing to the experience acquired by the (Natives of the) diving party, and to the facility in preparation of the foundation beds on the freshly and more exactly deposited rubble. The result has been 710 running feet built in 1872-73, and completion of the superstructure to its full length of 1,503 feet, within about 2¼ years from date of commencement.

Manora Breakwater.

328. The West channel benefited during the monsoon from the shelter of the half length of break-water, but shoaled about 2 feet at outer end; less, however, than in any previous year. This channel is now completely established as the main and direct entrance to the Harbour, so that the Mail Steamers leave at a uniform fixed hour independent of tide, and ships but rarely require the aid of the steam tug.

West Channel.

329. Dredging was resumed on 15th October and has since been continued, so that the channel is now 250 feet wide with no less depth than 8 feet at low water, and it is expected that before the monsoon, a depth of 20 feet will have been attained on the above width.

Dredging.

The quantity dredged during the year was 1,58,046 tons, and 262 tons of stone were also removed by the divers at a total expenditure of * Rs. 55,177, which includes repairs and maintenance of the dredging vessels, and machinery.

* *Including London Stores.*

330. No change was made in the waterway of the partially closed Chinna Creek during the year, but the stone bank and railway staging were maintained. With the help of a trifling outlay on training bunds, and dredging hard shoals, the scour of the Chinna Creek waters worked well, and the survey of Keamari anchorage of last May showed, as was anticipated, an improvement as compared with the previous January. The final closure of the Chinna Creek is being proceeded with.

Chinna Creek.

331. The Diving Staff were employed during the monsoon in blasting and removing the salient part of the shelf of rock at Deep Water Point, also the top of the "Morris" rock, in the deep water adjoining, was removed to 20 feet below low water. Altogether 1,065 tons of rock were taken out, or rolled nto deep water.

Deep Water Point.

332. Owing to changes in the staff, and to busy occupation in pushing on works, the surveys were not kept up as usual, though sufficiently so to fulfil immediate requirements, and to shew that progress is generally satisfactory, the only exceptions being the shoaling in Keamari anchorage and opposite end of East Pier, both of which, however, may be expected to yield to time, or to practicable measures.

Periodical Survey of Harbour.

333. The other operations of the Harbour Works consisted of work subsidiary to the main project, such as repairs, and manufacture of tools, plant, and machinery, and require no detailed notice. Estimate, Rs. 43,07,550; total expenditure, 40,08,615.

III.—LIGHTHOUSES.

334. BOMBAY.—During the year the masonry of the Tower was raised 28 feet 8 inches, being from the 68th to the 89th course, which is the highest; the last stone was set on the 3rd of May 1873. The top of the masonry is 142 feet 8 inches above the foundation, or 133 feet above mean water level. The walls have been plastered inside with Portland cement; stairs and girders fixed, and slate floors laid. A stone landing stair has been commenced. The expenditure in the year amounted to Rs. 62,617; the total outlay has been Rs. 5,27,443, against an estimate of Rs. 5,84,206.

Prongs Light House.

335. RUTNAGHERRY.—This Light House has been constructed on a projecting headland to the south of Jeytapoor. The light is a fixed white Dioptric of the sixth order, and it is placed 85 feet above high water-mark. Cost, Rs. 2,062.

Jeytapoor Light House.

IMPERIAL, PROVINCIAL AND LOCAL.

The Appropriations and Outlay for the Public Works of the Bombay Presidency during the year 1872-73, *were as follows (exclusive of the Grant for Railways).*

1872-73.	Rs.	
The Imperial grant, Ordinary, exclusive of Establishment, but inclusive of Tools and Plant	32,58,643	
Expenditure do. do.	32,39,698	
Saving.....	18,945	
The Imperial grant, Agricultural, exclusive of Establishment, but inclusive of Tools and Plant	23,70,375	
Expenditure do. do.	18,07,932	
Saving.....	5,62,443	
Provincial grant, exclusive of Establishment, but inclusive of Tools and Plant	26,11,994	
Expenditure do. do.	22,29,783	
Saving.....	3,82,211	
Local Funds grant, exclusive of Establishment, but inclusive of Tools and Plant	19,45,659	
Expenditure do. do.	15,54,586	
Saving.....	3,91,073	
Imperial grant, Ordinary	32,58,643	
Do. do. Agricultural	23,70,375	
Provincial do.	26,11,994	
Local do.	19,45,659	
		1,01,86,671
Outlay.		
Imperial, Ordinary	32,39,698	
Do. Agricultural	18,07,932	
Provincial	22,29,783	
Local	15,54,586	
		88,31,999
		13,54,672
Cost of Establishment.		
Imperial, Ordinary	5,50,450	
Do. Agricultural	5,75,298	
Provincial	8,02,347	
Local	1,54,542	
Contributions	1,202	
Total.....	...	20,83,839

Cost of Establishment, Rs. 20,82,637, gives a percentage of 23·58 on the expenditure, Imperial, Provincial, and Local, of Rs. 88,31,999. Including Contributions, the percentage is 22·91.

IMPERIAL, ORDINARY.

Account of Appropriation and Outlay for Public Works, Imperial, Ordinary, in the Bombay Presidency, for the year 1872-73.

Service Heads.	Grants as per Budget Orders.	Outlay.	Difference.	
			Less.	More.
Original Works.	Rs.	Rs.	Rs.	Rs.
Military	13,25,000	14,75,437	...	1,50,437
Civil Buildings	5,74,000	7,95,386	...	2,21,386
Miscellaneous Public Improvements ...	2,90,000	9,83,563	...	6,93,563
	21,89,000	32,54,386	...	10,65,386
Repairs.				
Military	4,25,000	4,24,462	538	...
Civil Buildings	13,000	13,746	...	746
Communications	...	99,727	...	99,727
Miscellaneous Public Improvements ...	...	1,545	...	1,545
	4,38,000	5,39,480	...	1,01,480
Establishment	5,08,000	5,50,450	...	42,450
Tools and Plant	25,000	22,052	2,948	...
Profit and Loss	...	952	...	952
Total.....	31,60,000	43,67,320	....	12,07,320
Add—Increase to Grant	6,82,300	...	6,82,300	...
	38,42,300	43,67,320	...	5,25,020
Deduct—Reductions for Expenditure in England...	75,657	5,12,674	4,37,017	...
„ Decrease in Stock	...	14,481	14,481	...
„ „ under London Invoices...	...	40,745	40,745	...
„ „ „ London Stores ...	...	2,897	2,897	...
„ Credit to State Railway General ...	...	6,375	6,375	...
	75,657	5,77,172	5,01,515	...
Grand Total.....	37,66,643	37,90,148	...	23,505

Expenditure on Imperial Works from Funds supplied in addition to the Budget Grant.	Amount of Contribution.	Outlay.	Less.	More.
Contributions...	23,808	23,665	143	....

IMPERIAL, ORDINARY.

Statement showing amounts actually available and actual Outlay on Public Works, Imperial, Ordinary, in the Bombay Presidency, for the year 1872-73.

Service Heads.		Amount available on the 31st March 1873.	Outlay.	Difference.	
				Less.	More.
		Rs.	Rs.	Rs.	Rs.
Original Works.					
Military	*A*	16,02,933	14,75,437	1,27,496	...
Civil Buildings	*B*	8,35,362	7,95,386	39,976	...
Miscellaneous Public Improvements ...	*C*	9,96,666	9,83,563	13,103	...
		34,34,961	32,54,386	1,80,575	...
Repairs.					
Military		4,26,500	4,24,462	2,038	...
Civil Buildings		15,325	13,746	1,579	...
Communications	*D*	1,00,902	99,727	1,175	...
Miscellaneous Public Improvements... ...		...	1,545	...	1,545
		5,42,727	5,39,480	3,247	...
Establishment		5,08,000	5,50,450	...	42,450
Tools and Plant	*B*	31,832	22,052	9,780	...
Profit and Loss		...	952	...	952
Grand Total.....		45,17,520	43,67,320	1,50,200	...

A. Inclusive of increase for expenditure in England, and decrease under suspense balances.

C. Do. do. and of Rs. 6,46,978 debited to Port Trust in previous years, adjusted to the debit of Ordinary grant this year, per Government of India's No. 1921, dated 24th March 1873.

B. Do. of increase for expenditure in England debited to Outlay, and of Rs. 8,000 sanctioned for the Quarters for the Superintendent of Telegraphs at Deesa, per Government of India's No. 130 A.G., dated 12th March 1873.

D. Inclusive of Rs. 99,727 debited to Local Funds in 1864-65, adjusted to the debit of Ordinary Grant this year, per Government of India's No. 254 A.G., dated 10th May 1873.

IMPERIAL, IRRIGATION.

Account of Appropriation and Outlay for Public Works, Imperial, Irrigation, in the Bombay Presidency, for the year 1872-73.

Service Heads.	Grants as per Budget Orders.	Outlay.	Difference.	
			Less.	More.
	Rs.	Rs.	Rs.	Rs.
Original Works.				
Agricultural. Extraordinary	11,10,960	8,18,144	2,92,816	...
Agricultural. Ordinary	4,31,690	4,11,109	20,581	...
	15,42,650	12,29,253	3,13,397	...
Repairs.				
Agricultural, Ordinary	5,66,080	5,58,707	7,373	...
Establishment. Extraordinary	3,57,150	83,727	2,73,423	...
Establishment. Ordinary	2,63,475	4,91,571	...	2,28,096
	6,20,625	5,75,298	45,327	...
Tools and Plant. Extraordinary	31,890	2,434	29,456	...
Tools and Plant. Ordinary...	13,755	30,593	...	16,838
	45,645	33,027	12,618	...
Profit and Loss, Ordinary	...	69	...	69
	27,75,000	23,96,354	3,78,646	...
Add—Increase to Grant	2,50,000	...	2,50,000	...
	30,25,000	23,96,354	6,28,646	...
Deduct—Reductions for Expenditure in England	34,000	4,189	...	29,811
„ Decrease in Stock	...	5,072	5,072	...
„ „ under Miscellaneous Advances...	...	3,863	3,863	...
	34,000	13,124	...	20,876
Grand Total.....	29,91,000	23,83,230	6,07,770	...

N.B.—The figures in this statement and the two which follow it are liable to alterations, as the accounts of Irrigation works are not finally closed.

IMPERIAL, IRRIGATION.

Account of Appropriation for Public Works, Agricultural, during 1872-73, *arranged by Service Heads.— Extraordinary Expenditure only.*

Service Heads.	Grants as per Budget Orders.	Outlay.	Difference.	
			Less.	More.
Extraordinary.	Rs.	Rs.	Rs.	Rs.
Irrigation.				
Original Works	11,10,960	8,18,144	2,92,816	...
Establishment	3,57,150	83,727	2,73,423	...
Tools and Plant	31,890	2,434	29,456	...
	15,00,000	9,04,305	5,95,695	...
Deduct—Reductions for Expenditure in England	31,000	5	...	30,995
„ Decrease under Miscellaneous Advances	...	3,509	3,509	...
	31,000	3,514	...	27,486
Total ...	14,69,000	9,00,791	5,68,209	...

Ordinary Expenditure only.

Service Heads.	Grants as per Budget Orders.	Outlay.	Difference.	
			Less.	More.
Ordinary.	Rs.	Rs.	Rs.	Rs.
Irrigation.				
Original Works	6,31,690	4,11,109	2,20,581	...
Repairs	6,16,080	5,58,707	57,373	...
Establishment	2,63,475	4,91,571	...	2,28,096
Tools and Plant	13,755	30,593	...	16,838
Profit and Loss	...	69	...	69
	15,25,000	14,92,049	32,951	...
Deduct—Reductions for Expenditure in England	3,000	4,184	1,184	...
„ Decrease in Stock	...	5,072	5,072	...
„ „ under Miscellaneous Advances	...	354	354	...
	3,000	9,610	6,610	...
Total ...	15,22,000	14,82,439	39,561	...

IMPERIAL, IRRIGATION.

Statement showing amounts actually available and actual Outlay on Public Works, Imperial, Irrigation, in the Bombay Presidency for the year 1872-73.

Service Heads.	Amount available on the 31st March 1873.	Outlay.	Difference.	
			Less.	More.
Original Works.	Rs.	Rs.	Rs.	Rs.
Agricultural { Extraordinary	*A* 10,83,469	8,18,144	2,65,325	...
Agricultural { Ordinary	*B* 6,59,042	4,11,109	2,47,933	...
	17,42,511	12,29,253	5,13,258	...
Repairs.				
Agricultural, Ordinary	6,16,080	5,58,707	57,373	...
Establishment { Extraordinary	3,57,150	83,727	2,73,423	...
Establishment { Ordinary	*C* 3,51,765	4,91,571	...	1,39,806
	7,08,915	5,75,298	1,33,617	....
Tools and Plant { Extraordinary	*D* 31,895	2,434	29,461	...
Tools and Plant { Ordinary	*E* 42,783	30,593	12,190	...
	74,678	33,027	41,651	...
Profit and Loss, Ordinary	...	69	...	69
	31,42,184	23,96,354	7,45,830	...

A. Inclusive of decrease under suspense balances and for expenditure in England.

B. Inclusive of decrease under suspense balances and of Rs. 40,426 debited to the Extraordinary Grant in previous years, adjusted to the debit of Ordinary Grant this year, per Government of India's No. 81-A I., dated 24th March 1873.

C. Inclusive of Rs. 88,290 debited to the Extraordinary Grant in previous years, adjusted to the debit of Ordinary Grant this year. Of this amount, Rs. 8,040 have been sanctioned on the authority quoted against *B*.

D. Inclusive of increase for expenditure in England.

E. Do. Do. and of Rs. 9,344 debited to the Extraordinary Grant in previous years, adjusted to the debit of Ordinary Grant this year. Of this amount, Rs. 714 have been sanctioned on the authority quoted against *B*.

PROVINCIAL.

Account of Appropriation and Outlay for Public Works, Provincial, in the Bombay Presidency, for the year 1872-73.

Service Heads.	Grants as per Budget Orders.	Outlay.	Difference.	
			Less.	More.
Original Works.	Rs.	Rs.	Rs.	Rs.
Civil Buildings	9,45,000	10,93,639	...	1,48,639
Communications	6,75,000	5,68,213	1,06,787	...
Miscellaneous Public Improvements... ...	30,000	21,825	8,175	...
	16,50,000	16,83,677	...	33,677
Repairs.				
Civil Buildings	2,25,000	2,24,748	252	...
Communications	3,25,000	3,05,230	19,770	...
Miscellaneous Public Improvements... ...	25,000	14,260	10,740	...
	5,75,000	5,44,238	30,762	...
Establishment...	7,50,000	8,02,347	...	52,347
Tools and Plant	25,000	27,040	...	2,040
Profit and Loss	...	6,981	...	6,981
	30,00,000	30,64,283	...	64,283
Add—Increase to Grant	3,61,994	...	3,61,994	...
Deduct—Decrease in Stock	...	32,153	32,153	...
Grand Total.....	33,61,994	30,32,130	3,29,864	...
Expenditure on Provincial Works from Funds supplied in addition to the Budget Grant.	**Amount of Contribution.**	**Outlay.**	**Less.**	**More.**
Grants-in-aid from Local Funds	9,54,514	9,05,671	48,843	...
Contributions	3,39,086	2,43,612	95,474	...

PROVINCIAL.

Statement showing amounts actually available and actual Outlay for Public Works, Provincial, in the Bombay Presidency, for the year 1872-73.

Service Heads.	Amount available on the 31st March 1873.	Outlay.	Difference.	
			Less.	More.
Original Works.	Rs.	Rs.	Rs.	Rs.
Civil Buildings	*14,60,657	10,93,639	3,67,018	...
Communications	6,11,220	5,68,213	43,007	...
Miscellaneous Public Improvements... ...	19,500	21,825	...	2,325
	20,91,377	16,83,677	4,07,700	...
Repairs.				
Civil Buildings	2,31,977	2,24,748	7,229	...
Communications	3,31,171	3,05,230	25,941	...
Miscellaneous Public Improvements... ...	25,000	14,260	10,740	...
	5,88,148	5,44,238	43,910	...
Establishment...	7,50,000	8,02,347	...	52,347
Tools and Plant	34,500	27,040	7,460	...
Profit and Loss	...	6,981	...	6,981
Grand Total.....	34,64,025	30,64,283	3,99,742	...

* Inclusive of Rs. 69,878 being value of Stores indented for in 1871-72, but received in 1872-73, per G. R. No. 25, dated 7th January 1873, para. 2.

LOCAL.

Account of Appropriation and Outlay for Public Works, Local, in the Bombay Presidency, for the year 1872-73.

Service Heads.	Grants as per Budget Orders.	Outlay.	Difference.	
			Less.	More.
	Rs.	Rs.	Rs.	Rs.
Original Works.				
Civil Buildings	2,05,500	1,87,363	18,137	...
Communications	3,91,450	3,84,544	6,906	...
Miscellaneous Public Improvements... ...	59,590	49,656	9,934	...
	6,56,540	6,21,563	34,977	...
Repairs.				
Civil Buildings	850	3,988	...	3,138
Communications	1,41,800	1,45,415	...	3,615
Miscellaneous Public Improvements... ...	36,520	23,978	12,542	...
	1,79,170	1,73,381	5,789	...
Establishment.				
Salaries	18,875	7,044	11,831	...
Travelling Allowances	395	...	395	...
Contingencies	800	96	704	...
	20,070	7,140	12,930	...
Tools and Plant	700	1,373	...	673
Grants-in-aid to Provincial Works	8,66,970	9,05,671	...	38,701
Total.....	17,23,450	17,09,128	14,322	...
Net increase by additional grants or share of grants made over to Public Works Department	4,14,751	...	4,14,751	...
Grand Total.....	21,38,201	17,09,128	4,29,073	...

LOCAL.

Account of Appropriation and Outlay for Public Works, Local, in the Bombay Presidency, for the year 1872-73.

Service Heads.	Grants as they stood on the 31st March 1873.	Outlay.	Difference.	
			Less.	More.
Original Works.	Rs.	Rs.	Rs.	Rs.
Civil Buildings	3,63,645	1,87,363	1,76,282	...
Communications	4,92,323	3,84,544	1,07,779	...
Miscellaneous Public Improvements... ...	85,443	49,656	35,787	...
	9,41,411	6,21,563	3,19,848	...
Repairs.				
Civil Buildings	4,458	3,988	470	...
Communications...	1,61,107	1,45,415	15,692	...
Miscellaneous Public Improvements... ...	52,010	23,978	28,032	...
	2,17,575	1,73,381	44,194	...
Establishment.				
Salaries	21,789	7,044	14,745	...
Travelling Allowances	495	...	495	...
Contingencies...	800	96	704	...
	23,084	7,140	15,944	...
Tools and Plant	1,617	1,373	244	...
Grants-in-aid to Provincial Works	9,54,514	9,05,671	48,843	...
Grand Total.....	21,38,201	17,09,128	4,29,073	...

Abstract of Expenditure on all heads of Imperial and Provincial Funds.

	Imperial Funds.	Provincial Funds.	Local Funds Grants-in-aid.	Contribution.	Total.
Original Works.	Rs.	Rs.	Rs.	Rs.	Rs.
Military	14,75,437	...	...	2,060	14,77,497
Agricultural	12,29,253	...	...	21,090	12,50,343
Civil Buildings	7,95,386	10,93,639	3,728	2,13,795	21,06,548
Communications	...	5,68,213	1,98,927	15,961	7,83,101
Miscellaneous Public Improvements.	9,83,563	21,825	...	2,295	10,07,683
Repairs.	44,83,639	16,83,677	2,02,655	2,55,201	66,25,172
Military	4,24,462	...	...	515	4,24,977
Agricultural	5,58,707	...	...	...	5,58,707
Civil Buildings	13,746	2,24,748	...	4,287	2,42,781
Communications	99,727	3,05,230	5,55,614	5,542	9,66,113
Miscellaneous Public Improvements.	1,545	14,260	...	530	16,335
	10,98,187	5,44,238	5,55,614	10,874	22,08,913
Establishment	11,25,748	8,02,347	1,47,402	1,202	20,76,699
Tools and Plant	55,079	27,040	...	...	82,119
Profit and Loss	1,021	6,981	...	...	8,002
	67,63,674	30,64,283	9,05,671	2,67,277	1,10,00,905
Deduct—Expenditure in England	5,16,863	...	...	...	5,16,863
„ Decrease under Miscellaneous Advances.	3,863	...	...	...	3,863
„ „ in Stock	19,553	32,153	...	...	51,706
„ „ under London Invoices...	40,745	...	...	...	40,745
„ „ „ London Stores.	2,897	...	...	...	2,897
„ Credit to State Railway General	6,375	...	...	...	6,375
	5,90,296	32,153	...	...	6,22,449
Grand Total.....	61,73,378	30,32,130	9,05,671	2,67,277	1,03,78,456

Abstract of Expenditure from Contributions during 1872-73.

	Amount of Contribution.	Outlay.	Less.	More.
	Rs.	Rs.	Rs.	Rs.
Original Works.				
Military	2,069	2,060	...	...
Agricultural	20,940	21,090	...	150
Civil Buildings	3,07,458	2,13,795	93,663	...
Communications	17,035	15,961	1,074	...
Miscellaneous Public Improvements... ...	2,522	2,295	227	...
	3,50,015	2,55,201	94,814	...
Repairs.				
Military	808	515	293	...
Civil Buildings	4,310	4,287	23	...
Communications	5,993	5,542	451	...
Miscellaneous Public Improvements... ...	566	530	36	...
	11,677	10,874	803	...
Establishment	1,202	1,202	...	...
Total.....	3,62,894	2,67,277	95,617	...

Abstract of Expenditure from Grants-in-aid from Local Funds.

	Rs.	Rs.	Rs.	Rs.
Original Works.				
Civil Buildings	3,728	3,728	...	...
Communications	2,25,714	1,98,927	26,787	...
	2,29,442	2,02,655	26,787	...
Repairs.				
Communications	5,55,614	5,55,614	...	...
Establishment	1,69,458	1,47,402	22,056	...
Total.....	9,54,514	9,05,671	48,843	...

BOMBAY PRESIDENCY.

Statement showing the Imperial Expenditure incurred in the Public Works Department, during the year 1872-73, *to accompany the Administration Report for that year.*

	Details.	Total of each Station.			Total of each Class.		
		Original Works.	Repairs.	Total.	Original Works.	Repairs.	Total.
	Ordinary Expenditure.						
	Military.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Buildings for the Accommodation of European Troops.	Aboo	18,681	2,771	21,452			
	Aden	92,761	14,098	1,06,859			
	Ahmedabad	313	6,315	6,628			
	Ahmednuggur	66,027	14,258	80,285			
	Baroda	...	1,060	1,060			
	Belgaum	2,73,600	12,558	2,86,158			
	Bhooj	...	295	295			
	Bombay	...	24,272	24,272			
	Colába	2,055	...	2,055			
	Deesa	6,151	10,687	16,838			
	Deolalee	93,210	9,354	1,02,564			
	Dharwar	...	271	271			
	Hydrabad	2,496	6,575	9,071	7,37,240	1,80,430	9,17,670
	Kurrachee	53,910	18,620	72,530			
	Kirkee	53,512	9,274	62,786			
	Khundalla	...	4,822	4,822			
	Malligaum	...	462	462			
	Perim	154	...	154			
	Poona	19,896	7,280	27,176			
	Poorundhur	2,439	5,143	7,582			
	Sattara	48,775	2,763	51,538			
	Secroor	...	548	548			
	Soopa	...	173	173			
	Teethul	...	810	810			
	Wanowree and Ghorpoorie	3,260	28,021	31,281			
Buildings for the Accommodatin of Native Troops.	Aden	7,113	9,389	16,502			
	Ahmedabad	...	290	290			
	Ahmednuggur	...	404	404			
	Baroda	...	571	571			
	Belgaum	...	395	395			
	Bhooj	...	290	290			
	Bombay	2,993	4,102	7,095			
	Deesa	6,481	305	6,785			
	Dharwar	...	292	292			
	Dhoolia	...	498	498			
	Hydrabad	...	1,080	1,080			
	Jacobabad	10,005	4,990	14,995	54,064	40,382	94,446
	Kurrachee	...	959	959			
	Kirkee	...	6,114	6,114			
	Kolhapoor	...	1,130	1,130			
	Kulladghee	...	192	192			
	Poona	4,592	6,539	11,131			
	Rajkote	4,345	1,102	5,447			
	Sattara	11,341	246	11,587			
	Sholapoor	...	489	489			
	Surat	...	796	796			
	Vingorla	...	292	292			
	Carried over Rs.	7,91,304	2,20,812	10,12,116	7,91,304	2,20,812	10,12,116

Details.	Total of each Station.			Total of each Class.		
	Original Works.	Repairs.	Total.	Original Works.	Repairs.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Brought over Rs.....	7,91,304	2,20,812	10,12,116	7,91,304	2,20,812	10,12,116
ORDINARY EXPENDITURE —*continued.*						
Military—continued.						
Minor Works	69,550	...	69,550	69,550	...	69,550
Ordnance and Commissariat Buildings	2,15,927	40,715	2,56,642	2,15,927	40,715	2,56,642
Works of Fortifications ...	286	10,979	11,265	286	10,979	11,265
General Cantonment Works and Roads	49,572	84,259	1,33,831	49,572	84,259	1,33,831
Hill Sanitaria	897	469	1,366	897	469	1,366
Staff	15,762	36,570	52,332	15,762	36,570	52,332
Naval	3,32,139	2,881	3,35,020	3,32,139	2,881	3,35,020
Dock	...	27,777	27,777	...	27,777	27,777
Total Military.....	14,75,437	4,24,462	18,99,899	14,75,437	4,24,462	18,99,899
Agricultural.						
Wozur Project...	30,467	...	30,467	30,467	...	30,467
Bhátodi Tank	26,250	494	26,744	26,250	494	26,744
Modak Tank	8	1,020	1,028	8	1,020	1,028
Sabarmatti Canal	341	...	341	341	...	341
Mháswá Tank	819	...	819	819	...	819
Hartálá Tank	303	...	303	303	...	303
Wásná (Reweree) Canal ...	175	1,676	1,851	175	1,676	1,851
Gondowlee Canal	728	496	1,224	728	496	1,224
Maini Tank	60,069	...	60,069	60,069	...	60,069
Gutpurbá Survey	1,389	...	1,389	1,389	...	1,389
Bhima and Seená Project ...	574	...	574	574	...	574
Tapty Canal	24,321	...	24,321	24,321	...	24,321
Mitrow Canal	15,783	42,109	57,892	15,783	42,109	57,892
Jambrow Canal	1,710	...	1,710	1,710	...	1,710
Thar Canal	22,505	3,915	26,420	22,505	3,915	26,420
Cuts in the bed of Nara ...	25,184	1,760	26,944	25,184	1,760	26,944
Dimwah	6,388	1,951	8,339	6,388	1,951	8,339
Fulalie Canal	15,118	1,02,056	1,17,174	15,118	1,02,056	1,17,174
Nara Canal	4,790	801	5,591	4,790	801	5,591
Excavation of the bed of Arul	22,758	...	22,758	22,758	...	22,758
Ali Bhud Kutcherry Canal ...	7,417	...	7,417	7,417	...	7,417
Great Marrack Canal	35,586	4,295	39,881	35,586	4,295	39,881
Khesano Canal	21,879	...	21,879	21,879	...	21,879
Gharro Canal	5,474	...	5,474	5,474	...	5,474
Sarfrazwah Canal	48,583	27	48,610	48,583	27	48,610
Ghar Canal	8,945	709	9,654	8,945	709	9,654
Desert Canal	18	...	18	18	...	18
Hussunalli	517	...	517	517	...	517
Khyre	511	267	778	511	267	778
Western Narra	27	2,504	2,531	27	2,504	2,531
Sluice and Waste Weir to Neera Bund	4,795	...	4,795	4,795	...	4,795
Baggam	215	364	579	215	364	579
Sukkhar	436	20,367	20,803	436	20,367	20,803
Lakh	169	3,273	3,442	169	3,273	3,442
Kallala...	172	489	661	172	489	661
Topalkatti	2,719	...	2,719	2,719	...	2,719
Carried over Rs.....	3,97,143	1,88,573	5,85,716	3,97,143	1,88,573	5,85,716

Details.	Total of each Station.			Total of each Class.		
	Original Works.	Repairs.	Total.	Original Works.	Repairs.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Brought over Rs.....	3,97,143	1,88,573	5,85,716	3,97,143	1,88,573	5,85,716
ORDINARY EXPENDITURE —*continued.*						
Agricultural—continued.						
Chyankenkeri	6	...	6	6	...	6
Jamda	919	6,780	7,699	919	6,780	7,699
Ekruk	144	9,516	9,660	144	9,516	9,660
Clearance of a Dhora in the Superdad of the Shewan Talooka	300	...	300	300	...	300
Wassing	...	74	74	...	74	74
Fordwah	...	762	762	...	762	762
Pinyari Canal	...	2,848	2,848	...	2,848	2,848
Meerwah Kullan	...	207	207	...	207	207
Kulri Canal	...	173	173	...	173	173
Oochta Canal	...	70	70	...	70	70
Philtha	...	10	10	...	10	10
Kairowah	...	10	10	...	10	10
Ordinary Agricultural Works for which no Capital or Revenue Account is kept ...	12,597	...	12,597	12,597	...	12,597
Rajwah	...	10	10	...	10	10
Ganjbher	...	3,052	3,052	...	3,052	3,052
Sulta'	...	30	30	...	30	30
Khumta	...	24	24	...	24	24
Punchguzza	...	10	10	...	10	10
Massuwah	...	3,878	3,878	...	3,878	3,878
Sindwah	...	13,977	13,977	...	13,977	13,977
Umarkas	...	968	968	...	968	968
Dengrowah	...	996	996	...	996	996
Dherwah	...	1,170	1,170	...	1,170	1,170
Gharwah	...	5,064	5,064	...	5,064	5,064
Nara	...	22,556	22,556	...	22,556	22,556
Maharowah	...	1,189	1,189	...	1,189	1,189
Koraiwah	...	5,839	5,839	...	5,839	5,839
Lundiwah	...	1,650	1,650	...	1,650	1,650
Wahur ... ... *Credit	...	***221**	**221**	...	**221**	**221**
Pasti Canal	...	208	208	...	208	208
Belumba Canal	...	472	472	...	472	472
Wadali Canal	...	379	379	...	379	379
Sawargaum Canal	...	504	504	...	504	504
Deonal Canal	...	112	112	...	112	112
Dharma Canal...	...	893	893	...	893	893
Haveri Tank	...	1,276	1,276	...	1,276	1,276
Code Tank	...	121	121	...	121	121
Herryedchi Tank	...	4	4	...	4	4
Kelgeri Tank	...	245	245	...	245	245
Khari Irrigation Sluices ...	...	238	238	...	238	238
Khakurdi Canal	...	1,866	1,866	...	1,866	1,866
Khair Canal	...	737	737	...	737	737
Soampur Canal	...	1,557	1,557	...	1,557	1,557
Jaikhera	...	552	552	...	552	552
Wurgaum Canal	...	276	276	...	276	276
Choundara Canal	...	1,271	1,271	...	1,271	1,271
Nandgaum Canal	...	36	36	...	36	36
Carried over Rs.....	4,11,109	2,79,962	6,91,071	4,11,109	2,79,962	6,91,071

Details.	Total of each Station.			Total of each Class.		
	Original Works.	Repairs.	Total.	Original Works.	Repairs.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Brought over Rs.....	4,11,109	2,79,962	6,91,071	4,11,109	2,79,962	6,91,071
Ordinary Expenditure —*continued.*						
Agricultural—continued.						
Survey for Canal	...	123	123	...	123	123
Wadnair Bundura	...	11	11	...	11	11
Panjar Canal	...	6,824	6,824	...	6,824	6,824
Girna River Canal	...	135	135	...	135	135
Mosam River Canal	...	2,112	2,112	...	2,112	2,112
Munjawad Canal	...	2,068	2,068	...	2,068	2,068
Tolli Channel	...	158	158	...	158	158
Goondnier Tank	...	210	210	...	210	210
Kasurdi Tank	...	302	302	...	302	302
Patus Tank	...	11	11	...	11	11
Kristna Canal	...	5,309	5,309	...	5,309	5,309
Yerla Canal	...	1,616	1,616	...	1,616	1,616
Chickle Canal	...	615	615	...	615	615
Bigari Canal	...	44,905	44,905	...	44,905	44,905
Eastern Nara	...	870	870	...	870	870
Shikarpur Collectorate Canals.	...	1,833	1,833	...	1,833	1,833
Heeranwah	...	74	74	...	74	74
Maksudwah	...	272	272	...	272	272
Judha and Saugar Canals ...	...	3,500	3,500	...	3,500	3,500
Tanks in the Kulladghee Collectorate	...	843	843	...	843	843
Abkullanee expenses, Fullalie Division	...	306	306	...	306	306
Abkullanee expenses, Rohri Division	...	4,425	4,425	...	4,425	4,425
Canal clearance for 1872-73, Kurrachee Collectorate ...	...	71,208	71,208	...	71,208	71,208
Canal clearance for 1871-72, Kurrachee Collectorate—*Cr.	...	* 3,326	3,326	...	3,326	3,326
Abkullanee expenses for 1872-73, Kurrachee Collectorate Canal Division	...	7,351	7,351	...	7,351	7,351
Canal clearance, Fullalie Division	...	10,630	10,630	...	10,630	10,630
Canal clearance, Rohri Division.	...	77,171	77,171	...	77,171	77,171
Ordinary Agricultural Repairs for which no Capital or Revenue Account is kept ...	...	39,189	39,189	...	39,189	39,189
Total Agricultural.....	4,11,109	5,58,707	9,69,816	4,11,109	5,58,707	9,69,816
Civil Buildings.						
Opium	6,365	...	6,365	6,365	...	6,365
Mint	18,599	2,280	20,879	18,599	2,280	20,879
Salt	4,78,619	...	4,78,619	4,78,619	...	4,78,619
Post	1,54,024	5,278	1,59,302	1,54,024	5,278	1,59,302
Telegraph	1,37,585	4,466	1,42,051	1,37,585	4,466	1,42,051
Currency	194	881	1,075	194	881	1,075
Miscellaneous	...	841	841	...	841	841
Total Civil Buildings.....	7,95,386	13,746	8,09,132	7,95,386	13,746	8,09,132

Details.	Total of each Station.			Total of each Class.		
	Original Works.	Repairs.	Total.	Original Works.	Repairs.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ordinary Expenditure —*continued.*						
Communications.						
Roads	...	99,727	99,727	...	99,727	99,727
Total Communications.....	...	99,727	99,727	...	99,727	99,727
Miscellaneous Public Improvements.						
Harbours	2,67,425	...	2,67,425	2,67,425	...	2,67,425
Lighthouses	2,05,331	1,545	2,06,875	2,05,331	1,545	2,06,875
Reclamations	5,10,807	...	5,10,807	5,10,807	...	5,10,807
Total Miscellaneous Pub. Impts.	9,83,563	1,545	9,85,108	9,83,563	1,545	9,85,108
Total Works	36,65,495	10,98,187	47,63,682	36,65,495	10,98,187	47,63,682
Establishment...	...	...	10,42,021	...	...	10,42,021
Tools and Plant	...	...	52,645	...	...	52,645
Profit and Loss	...	...	1,021	...	...	1,021
	36,65,495	10,98,187	58,59,369	36,65,495	10,98,187	58,59,369
Deduct—Reduction in Suspense Balances	...	...	5,86,782	...	...	5,86,782
Total Ordinary Expenditure ...	36,65,495	10,98,187	52,72,587	36,65,495	10,98,187	52,72,587
Extraordinary Expenditure.						
Irrigation.						
Palkhair Project	17,310	...	17,310	17,310	...	17,310
Lakh Canal	8,186	...	8,186	8,186	...	8,186
Hathmati Canal	94,011	...	94,011	94,011	...	94,011
Jamda Canal	11,482	...	11,482	11,482	...	11,482
Panjar Canal	2,483	...	2,483	2,483	...	2,483
Moota Canal	5,33,295	...	5,33,295	5,33,295	...	5,33,295
Kristna Canal...	11,289	...	11,289	11,289	...	11,289
Ekruk Tank	15,889	...	15,889	15,889	...	15,889
Bigari Canal	37,095	...	37,095	37,095	...	37,095
Mitrow Canal	49,383	...	49,383	49,383	...	49,383
Sakkhar Canal...	37,721	...	37,721	37,721	...	37,721
Total Irrigation Works.....	8,18,144	...	8,18,144	8,18,144	...	8,18,144
Establishment...	...	...	83,727	...	...	83,727
Tools and Plant	...	...	2,434	...	...	2,434
	8,18,144	...	9,04,305	8,18,144	...	9,04,305
Deduct—Reduction in Suspense Balances	...	...	3,514	...	...	3,514
Total Extraordinary Expenditure...	8,18,144	...	9,00,791	8,18,144	...	9,00,791

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BOMBAY PRESIDENCY.

Statement showing the Provincial Expenditure incurred in the Public Works Department during the year 1872-73, *to accompany the Administration Report for that year.*

Details.	Total of each Station.			Total of each Class.		
	Original Works.	Repairs.	Total.	Original Works.	Repairs.	Total.
Provincial Expenditure.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Civil Buildings.						
Revenue	1,47,038	58,354	2,05,392	1,47,038	58,354	2,05,392
Customs	12,721	9,465	22,186	12,721	9,465	22,186
Salt	8,956	210	9,166	8,956	210	9,166
Ecclesiastical	20,329	19,608	39,937	20,329	19,608	39,937
Educational	99,595	9,353	1,08,948	99,595	9,353	1,08,948
Government Houses and Residencies	34,696	41,568	76,264	34,696	41,568	76,264
Secretariat	1,47,041	4,473	1,51,514	1,47,041	4,473	1,51,514
Public Works	40,774	9,543	50,317	40,774	9,543	50,317
Charitable Institution ...	89,724	21,916	1,11,640	89,724	21,916	1,11,640
Police	1,17,972	14,475	1,32,447	1,17,972	14,475	1,32,447
Courts	1,27,353	17,837	1,45,190	1,27,353	17,837	1,45,190
Jails	2,40,289	3,884	2,44,173	2,40,289	3,884	2,44,173
Miscellaneous	7,151	14,062	21,213	7,151	14,062	21,213
Total Civil Buildings....	10,93,639	2,24,748	13,18,387	10,93,639	2,24,748	13,18,387
Communications.						
Roads	2,92,920	2,58,243	5,51,163	2,92,920	2,58,243	5,51,163
Bridges	2,74,569	46,987	3,21,556	2,74,569	46,987	3,21,556
Navigable Canals	724	...	724	724	...	724
Total Communications.....	5,68,213	3,05,230	8,73,443	5,68,213	3,05,230	8,73,443
Miscellaneous Public Improvements.						
Harbours	76	3,879	3,956	76	3,879	3,956
Lighthouses	...	2,883	2,883	...	2,883	2,883
Miscellaneous other work ...	21,749	7,498	29,247	21,749	7,498	29,247
Total Miscellaneous Pub. Impts.	21,825	14,260	36,085	21,825	14,260	36,085
Total Works	16,83,677	5,44,238	22,27,915	16,83,677	5,44,238	22,27,915
Establishment...	...	...	8,02,347	...	...	8,02,347
Tools and Plant	...	...	27,040	...	...	27,040
Profit and Loss	...	...	6,981	...	...	6,981
	16,83,677	5,44,238	30,64,283	16,83,677	5,44,238	30,64,283
Less—Decrease in Stock Balances...	...	...	32,153	...	...	32,153
Total Provincial Expenditure...	16,83,677	5,44,238	30,32,130	16,83,677	5,44,238	30,32,130

A. DAVIDSON, Lieut.-Colonel, R.E.,
Controller of Public Works Accounts.

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